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SHANGHAI FUTURES EXCHANGE

上海国际能源交易中心
SHANGHAI INTERNATIONAL ENERGY EXCHANGE



CRUDE OIL FUTURES TRADING HANDBOOK

2026 Edition

Crude Oil Futures Trading Handbook 2026 Edition

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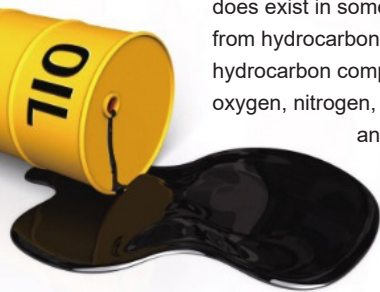
CRUDE OIL: INTRODUCTION

General Properties and Composition

Crude oil is a mixture of liquid hydrocarbons and their other natural forms directly extracted from underground reservoirs. It is usually a flowing or semi-flowing viscous liquid.

Both the properties and appearance of crude oil vary with the region from which it is produced. In terms of color, most crude varieties are black, while some are dark grey, dark green, dark brown, or even reddish brown, light yellow, or colorless; in terms of specific gravity, most varieties fall between 0.8 and 0.98. Crude oil also tends to be smelly due to the sulfur compounds it contains.

Crude oil is mainly composed of carbon, hydrogen, sulfur, nitrogen, oxygen, and trace elements. Carbon and hydrogen are the main constituents, accounting for approximately 96–99% of crude oil by weight, with the rest accounting for no more than 1–4%. All these elements exist in crude oil in the form of organic compounds, most of which are hydrocarbons including alkanes, cycloalkanes, aromatics, and hydrocarbon mixtures having the molecular structures of all three. Crude oil doesn't normally contain alkenes or alkynes, but the former does exist in some products from the second stage of refining. Aside from hydrocarbons, crude oil also has a considerable amount of non-hydrocarbon compounds, mainly including compounds containing sulfur, oxygen, nitrogen, as well as gelatinous and asphaltic substances (resins and asphaltenes), which altogether representing 10–20% of crude oil by mass.



As a complex, multi-component substance, crude oil has a very wide boiling range from room temperature to above 500 °C. While each component has its own characteristics, it is unnecessary to break down crude oil into individual components to derive useful petroleum products. In general, simply separating crude oil by fractional distillation should be enough for research and processing purposes. The term “fractional distillation” means “cutting” crude oil into “fractions” by the different boiling points of its components. Such fractions are often referred to as gasoline, kerosene, diesel, lubricating oil, or some other petroleum products, but they are not petroleum products in the strict sense of the term because the latter must meet certain quality requirements, while the former is just intermediate or semi-finished products that require further processing before becoming true petroleum products.

■ Main Performance Indicators

The main performance indicators of crude oil and petroleum products include, among others, density, viscosity, solidifying point, asphaltene and resin content, sulfur content, wax content, wax appearance point (cloud point), water content, total acid number (TAN), flash point, specific heat, and explosive limit. For crude oil, the physical properties are key indicators in determining its quality (and that of the resulting products) and controlling the refining process.

Density

The density of crude oil refers to its mass per unit volume. In general, lower density crude oil yields a higher ratio of light oil.

Because rising temperature increases a petroleum product's volume and thus reduces its density, density is only meaningful alongside a temperature. China's national standard (GB/T 1884) prescribes that the density at 20 °C, represented by ρ_{20} , is to be the standard density of petroleum and liquid petroleum products in China.



The specific gravity of a petroleum product refers to the ratio of its density to the density of water at a specified temperature, and is generally denoted as d_4^t for petroleum product at t °C. In China and Eastern Europe, the commonly used specific gravity is $d_4^{20^\circ\text{C}}$, whereas in America and other European countries it's $d_{60^\circ\text{F}}^{60^\circ\text{F}}$ i.e., the ratio of the density of petroleum product at 60 °F to that of water at 60 °F (approx. 15.6 °C).

Countries in this latter group often use a specific gravity index known as "API gravity at 60 °F" ("API gravity" for short) to indicate the standard density of petroleum products. API gravity is the opposite of density, in that a larger API gravity means a lower density. At present, API gravity is one of the primary factors in the global pricing of crude oil. Higher API gravity means a lighter crude oil and commands a higher price.

$$\text{API gravity} = (141.5 / d_{60^\circ\text{F}}^{60^\circ\text{F}}) - 131.5,$$

$$\text{where degrees Fahrenheit (}^\circ\text{F)} = 32 + \text{degrees Celsius (}^\circ\text{C)} \times 1.8$$

Viscosity

The viscosity of crude oil can be expressed and measured in a number of ways which often vary across countries. China uses kinematic viscosity and the Engler scale; countries including the U.S. and Great Britain use the Saybolt and Redwood scales; most countries in Western Europe, including Germany, adopt the same standards as China. The International Standardization Organization (ISO) has named kinematic viscosity to be the universal standard, a brief overview for which is given below.

The kinematic viscosity of crude oil refers to the ratio of its dynamic viscosity to its density.

Dynamic viscosity is measured in pascal second ($\text{Pa} \cdot \text{s}$) in the SI system and poise (P) or centipoise (cP) in the CGS system, interconvertible as follows:

$$1 \text{ Pa} \cdot \text{s} = 10 \text{ P} = 10^3 \text{ cP}$$

Kinematic viscosity, therefore, has a unit of m^2/s or mm^2/s in SI and stokes (St) or centistokes (cSt, or $1/100$ St) in CGS. For example, “180 cSt fuel oil” means fuel oil with a kinematic viscosity of 180 cSt. The two systems of units are interconvertible as follows:

$$1 \text{ m}^2/\text{s} = 10^6 \text{ mm}^2/\text{s} = 10^6 \text{ cSt}$$

Viscosity measures the resistance of crude oil to flow, and will decrease with rising temperature. Viscous, high pour-point crude oil and gas oil should be heated during shipment to maintain fluidity.

Low Temperature Performance

A petroleum product's low temperature performance is a vital quality indicator that directly affects how the product should be shipped, stored, and used.

This performance is measured by a number of metrics, including cloud point, crystallization point, freezing point, solidifying point, pour point, and cold filter plugging point, with solidifying point and pour point being the most important.

Solidifying point refers to the highest temperature that a petroleum product under prescribed thermal and shearing conditions can maintain a flowing surface when cooled. Pour point refers to the lowest temperature that a petroleum product can maintain its fluidity under prescribed laboratory conditions. The solidifying point of crude oil ranges from -50°C to 35°C depending on its composition. In particular, crude oil with a high proportion of light components has a lower solidifying point; conversely, crude oil with a high proportion of heavy components (especially paraffin) has a higher solidifying point.

Combustion Performance

Most petroleum products are flammable and explosive. Indicators like flash point, fire point, and auto-ignition temperature define the level of fire hazard – with lower values indicate a more easily combustible product – and are essential for ensuring personal and property safety during the storage and shipment of crude oil and petroleum products.



Sulfur Content

Nearly all crude oil and petroleum products contain some concentration of sulfur. Sulfur compounds negatively affect the refining process and the application of petroleum products; for instance, they corrode metallic equipment and pipelines, cause catalyst poisoning, and lower product quality. This is becoming a more prominent problem in recent years: as China's economic boom has catapulted car ownership to record levels, SO_2 , SO_3 , and other pollutants from the combustion of sulfur-containing fuel can cause serious harm to the environment. Hence, it is essential to limit the sulfur content in petroleum products; in particular, crude oil should undergo desulfurization before further processing.

Solubility

Crude oil is insoluble in water but can be combined with it to form an emulsion; crude oil is soluble in organic solvents like benzene, essence, ether, chloroform and carbon tetrachloride, and partially soluble in alcohol.

Crude Oil Classification

Crude oil can generally be classified by industrial, chemical, physical, or geological standards, with industrial (commodity) and chemical standards being the most common choice.

Industrial (Commodity) Standard

This standard encompasses a wide range of classification schemes, including by density, sulfur content, nitrogen content, wax content, and resin content. Internationally, crude oil is commonly priced based on its classification as defined by its API gravity and sulfur content.

Crude Oil Classification by API Gravity		
Classification	API Gravity	Density at 15 °C (g/cm ³)
Light	> 34.9	≤ 850
Medium	> 29.2	≤ 880
Heavy	> 20.6	≤ 930
Extra-Heavy	≤ 20.6	> 930

Source: Requirements on Import Crude Oil Quality Evaluation (SN/T 2999-2011)

According to the internationally accepted classification standards, the API of ultralight crude oil is $API \geq 50$, the API of light crude oil is $35 \leq API < 50$, the API of medium crude oil is $26 \leq API < 35$, and the API of heavy crude oil is $10 \leq API < 26$. In practice, these numerical ranges are not strictly observed and may vary from country to country and from company to company, as other factors such as marker crude would also often play a role.

In China, Daqing, Shengli, Liaohe, and Dagang oilfields produce medium crude oil; oilfields at Gudao and Urho district yield heavy crude oil; and Shuguang Zone 1 of the Liaohe oilfields and certain oil wells at Gudao produce extra-heavy crude oil.

Crude Oil Classification by Other Industrial Parameters						
Parameter	Sulfur Content			Nitrogen Content		
Category	Low	Medium	High	Low	Medium	High
% by Mass	< 0.5	0.5–2	> 2	< 0.25	–	> 0.25
Parameter	Wax Content			Resin Content		
Category	Low	Medium	High	Low	Medium	High
% by Mass	0.5–2.5	2.5–10	> 10	< 5	5–15	> 15

Source: *Storage and Shipment of Petroleum Materials*, China University of Petroleum Press



Chemical Standard

Chemical classification schemes are based on the chemical composition of crude oil, often focusing on some of the physical properties of crude oil that are directly related to its chemical composition.

1.By characterization factor

The characterization factor, or the K factor, is a function of the specific gravity and boiling point of crude oil and remains fairly constant for crude oils of similar chemical compositions. This property makes it suitable as a classification parameter.

Crude Oil Classification by Characterization Factor			
Characterization Factor	Naphthenic	Intermediate	Paraffinic
K Factor	≤ 11.5	≤ 12.1	> 12.1

Source: *Requirements on Import Crude Oil Quality Evaluation* (SN/T 2999-2011)

Source: *Storage and Shipment of Petroleum Materials*, China University of Petroleum Press

2.By key fraction properties

This kind of classification is based on the specific gravities of two key fractions of crude oil. The two key fractions are obtained at 250–275°C and 395–425°C, respectively, from crude oil kept in a special apparatus and distilled under specified conditions.

Crude Oil Classification by Key Fractions		
Key Fraction	First Key Fraction	Second Key Fraction
Paraffinic	$\rho_{20} < 0.8210 \text{ g/cm}^3$ API gravity > 40	$\rho_{20} < 0.8723 \text{ g/cm}^3$ API gravity > 30
Intermediate	$\rho_{20} = 0.8210\text{--}0.8562 \text{ g/cm}^3$ API gravity = 33–40	$\rho_{20} = 0.8723\text{--}0.9305 \text{ g/cm}^3$ API gravity = 20–30
Naphthenic	$\rho_{20} > 0.8562 \text{ g/cm}^3$ API gravity < 33	$\rho_{20} > 0.9305 \text{ g/cm}^3$ API gravity < 20

Source: *Storage and Shipment of Petroleum Materials*, China University of Petroleum Press

Crude Oil Refining

Crude oil refining is generally divided into primary refining and secondary refining.

Primary refining is a process during which crude oil is separated by distillation into fractions of various weights, taking advantage of the fact that different crude oil components have different boiling points. This process, commonly referred to as distillation, includes such stages as pretreatment, atmospheric distillation, and vacuum distillation. The products of primary refining include (1) light distillates, referring to distillates with a boiling point below about 370 °C, such as gasoline, kerosene, and diesel; (2) heavy distillates, referring to distillates with a boiling point between about 370 °C and 540 °C, such as gas oil, various lubricating oils, and cracking feedstock; and (3) residues (atmospheric residue, vacuum residue).

Secondary refining refers to further processing of products from primary refining. During this process, heavy distillates and residues are cracked by various means, including catalytic cracking, hydrocracking, and coking, to produce light oils. Catalytic reforming and petroleum product refining are also part of secondary refining.



Petroleum Products and Main Applications

Petroleum products are the general name of all kinds of commodities directly produced by petroleum or some part of petroleum as raw materials, generally excluding petrochemical products synthesized from petroleum as raw materials, which are mainly divided into six categories: fuels, lubricants, bitumen, paraffin wax, petroleum coke, solvents, and industrial chemicals.

Products in the “fuels” category include engine fuels such as gasoline, diesel and jet fuel (aviation kerosene), as well as kerosene and fuel oils. In China, about 80% of the petroleum products are petroleum fuels, of which 60% are various types of engine fuels. Lubricants are the best represented in terms of variety (over 100), but only account for 5% of the total production. Solvents and industrial chemicals, including cracking feedstock used for producing ethylene, petroleum aromatic hydrocarbons, and various solvent oils, account for around 10% of the total production, while bitumen, paraffin wax, and petroleum coke account for the remaining 5%–6%.



OVERVIEW OF THE DOMESTIC AND INTERNATIONAL OIL MARKETS

The oil industry has been around for more than 150 years, but true free trade in the international oil market did not begin until the late 1960s.

In the first 70 years of the 20th century, the price of oil remained fairly stable in spite of major global conflicts. This is in part due to the control of Western multinational oil companies over the vast majority of oil resources in the Middle East, and the oil prices by extension, through “concession agreements.” The establishment of the Organization of Petroleum Exporting Countries (OPEC) in 1960 marked the gradual shift of Western control of oil prices to OPEC. In the 1970s, the control of OPEC over most of the world’s oil supply was powerfully demonstrated in the two oil crises involving Saudi Arabia and Iran, when oil prices were pushed to record levels. Starting from the 1980s, however, non-OPEC countries gradually overtook OPEC countries in oil production, causing a global oversupply and the oil prices to plummet in a “reverse oil crisis.” This new market landscape signaled that the world’s oil prices would no longer be dictated by any single organization, but rather by a multitude of factors influenced by market forces.

The growing volatility in international oil prices in recent years has prompted a strong need for risk mitigation tools. The international crude oil futures market germinated to fill that void, and has been developing rapidly since the 1990s.

The International Oil Market

Global Distribution of Oil Reserves

The global distribution of oil reserves is extremely uneven: more in the Eastern Hemisphere than in the Western Hemisphere, at a ratio of 3:1; more in the Northern Hemisphere than in the Southern Hemisphere; and mostly between two latitude bands: between 20° N and 40° N, where 51.3% of the world's oil reserves—represented by the two major production areas of the Persian Gulf and the Gulf of Mexico, plus North Africa—are located, and between 50° N and 70° N, home to many well-known oilfields in the North Sea, Siberia in Russia, and the Volga-Ural region.

With the advent of new exploration technologies and the rising demand for oil, worldwide proven oil reserves have been increasing year by year.

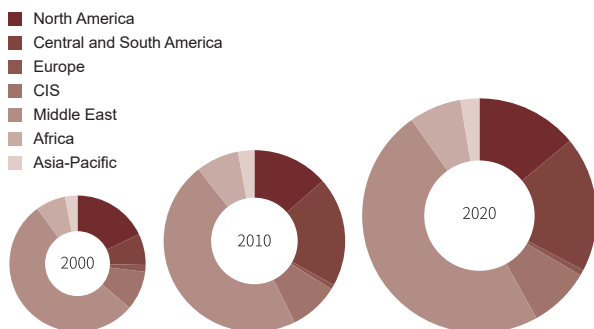
Time-wise, the Energy Institute's EI Statistical Review of World Energy 2025 reports an increase of 5.49% over the decade between 2010 and 2020, from 1.64 trillion barrels to 1.73 trillion barrels.

Region-wise, the distribution of proven oil reserves is wildly uneven, with 0.84 trillion barrels in the Middle East, accounting for 48.3% of the world's total; 0.01 trillion barrels in Europe and Eurasia (0.8%); 0.32 trillion barrels in Central and South America (18.7%); 0.13 trillion barrels in Africa (7.2%); 0.24 trillion barrels in North America (14.0%); and merely 0.05 trillion barrels in Asia-Pacific (2.6%). The proven reserves have been growing the fastest in Central and South America at an average annual rate of 3.3% in the past ten years.

Nation-wise, by the end of 2020, Venezuela boasted the world's largest proven reserves of 303.8 billion barrels, or 17.5% of the global total, thanks to the Orinoco Belt, the largest deposit of extra heavy crudes in the world. Next are Saudi Arabia and Canada, at 17.2% and 9.7% respectively. Notably, the oil sands in northern Alberta, Canada, while an unconventional source of crude oil, represent more than 95.7% of Canada's total reserves. Rounding up the top five are Iran and Iraq. In 2020, China's proven reserves were 26 billion barrels, or 1.5% of the global total. Recent years have seen a shifting global energy supply landscape with the development of new extraction technologies for unconventional oil and gas resources, most prominently represented by the shale and tight resources in the United States.

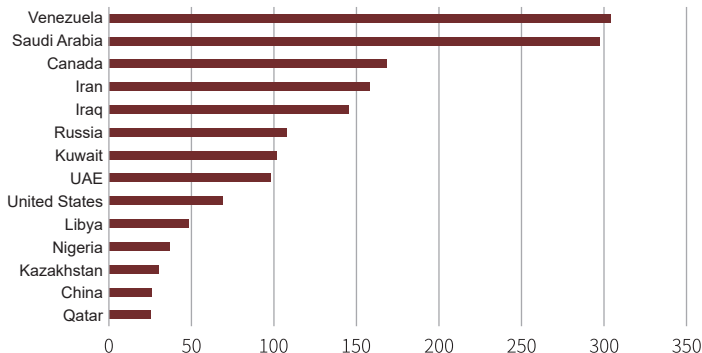


Proven Oil Reserves in 2000, 2010, and 2020 by Region (bn bbl)



Source: EI Statistical Review of World Energy 2025

Proven Oil Reserves at End of 2020 by Country (bn bbl)



Source: EI Statistical Review of World Energy 2025

Global Oil Production and Consumption

Production and Geographical Distribution

Worldwide oil production and consumption have been on the rise. According to the EI Statistical Review of World Energy 2025, global production in 2024 was 96.32 million barrels/day (b/d), up 0.59% from 96.329 million b/d in 2023; up

11.97% from 86.536 million b/d in 2013; and up 30.14% from 74.45 million b/d in 2000. Within the 10 years from 2014 to 2024, the world's oil production grew 0.89% annually on average.

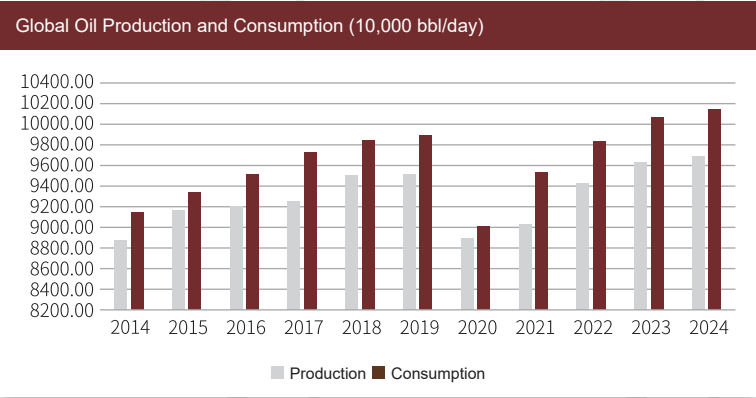
Region-wise, production is centered around the Middle East, North America, as well as Europe and the Commonwealth of Independent States (CIS) countries. In 2024 these regions respectively produced 30.119 million, 27.934 million, and 16.460 million b/d, representing 31.09%, 28.83% and 16.99% of the world's total.

In 2024, the combined output of the United States, Saudi Arabia, Russia, Canada, Iran, Iraq, and China reached 61.3550 million b/d, or 61.32% of the world's total.

Consumption

Global consumption in 2024 was 101 million b/d, up 0.7% from the previous year. This increasing demand is mainly driven by global economic recovery.

The top five consumers in 2024 were the United States, China, India, Saudi Arabia, and Russia, totaling 48.794 million b/d or 48.11% of the worldwide consumption. The United States took the top spot at 18.984 million b/d, or 18.73% of the global total. China was the world's second-largest consumer, rising from 9.307 million b/d in 2010 to 11.018 million b/d in 2024 at an average annual rate of 4.04%.



Source: EI Statistical Review of World Energy 2025



Major Exchanges for Crude Oil Futures

About a dozen exchanges worldwide list crude oil futures today. The two most influential are NYMEX, part of the CME Group, and the Intercontinental Exchange (ICE). The NYMEX WTI Crude Oil futures and ICE Brent Crude futures, accordingly, are the respective benchmark in the United States and Europe. Another important benchmark is Gulf Mercantile Exchange's Oman crude oil futures. By notional market size, INE's Shanghai crude oil futures is the third-largest crude oil benchmark in the world, after WTI and Brent.

According to the latest data from the Futures Industry Association (FIA), the top three most-traded crude oil futures and options contracts in 2025 were Multi Commodity Exchange of India's crude oil options, ICE's Brent crude oil futures, and NYMEX's WTI crude oil futures. INE's Shanghai crude oil futures ranked eighth.

Trading Volume of Major Global Crude Oil Contracts in 2025

	Exchange	Contract	Volume (lot)
1	Multi Commodity Exchange of India	Crude Oil Option	587,809,079
2	ICE Futures Europe	Brent Crude Oil Futures	321,245,857
3	New York Mercantile Exchange	WTI Light Sweet Crude Oil (CL) Futures	224,893,466
4	Multi Commodity Exchange of India	Crude Oil Mini Option	138,871,544
5	ICE Futures Europe	WTI Light Sweet Crude Oil Futures	92,091,932
6	ICE Futures Europe	Brent Crude Oil Option	62,319,588
7	New York Mercantile Exchange	Brent Crude Oil Last Day Financial (BZ) Futures	41,953,125
8	Shanghai International Energy Exchange	Medium Sour Crude Oil Futures	38,882,241
9	New York Mercantile Exchange	Crude Oil (LO) Option	38,282,535
10	National Stock Exchange of India	WTI Crude Oil Option	26,850,019

Source: FIA

Note: MOEX' Brent Crude Oil futures is 10 bbl/lot; MCX's crude oil futures is 100 bbl/lot.

Comparison of Major Global Crude Oil Contracts					
	INE (SC)	ICE Brent (B)	CME WTI (CL)	GME Oman (OOD)	ICE Futures Abu Dhabi Murban (ADM)
Underlying Product	Medium sour crude oil with API gravity of 32 and sulfur content of 1.5% by weight. Deliverable grades and premiums / discounts will be separately set by INE	BFOET (Brent, Forties, Oseberg, Ekofisk, Troll) and WTI Midland	WTI / DSW ¹	Oman crude oil	Murban crude oil
Contract Size	1,000 barrels	1,000 barrels	1,000 barrels	1,000 barrels	1,000 barrels
Price Quotation	Yuan per barrel	U.S. Dollar and Cents per barrel	U.S. Dollar and Cents per barrel	U.S. Dollar and Cents per barrel	U.S. Dollar and Cents per barrel
Minimum Price Fluctuation	¥0.1 per barrel	\$0.01 per barrel	\$0.01 per barrel	\$0.01 per barrel	\$0.01 per barrel
Settlement Method	Physical delivery	EFP delivery with an option to cash settle	Physical delivery	Physical delivery	Physical delivery
Delivery Method / Type	Delivery at INE-designated delivery storage facilities in bonded zones	EFP delivery with an option to cash settle	FOB at pipeline or delivery at depot	FOB at the loading port	FOB at the loading port
Settlement Price	The daily volume-weighted average price (VWAP)	VWAP from 19:28 to 19:30 London time	VWAP from 14:28 to 14:30 Eastern time (US)	Determined by the relevant values at the GME Oman market between 2:25 a.m. and 2:30 a.m. U.S. Eastern Standard Time, and may be corrected or amended to ensure it is a fair reflection of the market ²	VWAP from 19:28 to 19:30 London time

¹ WTI/DSW shall meet the grade and quality specifications on sulfur, API, viscosity, RVP, basic sediment, pour point, micro method carbon residue, TAN, total acid number, nickel, vanadium and HTSD

² <https://www.gulfiner.com/gme-product-services/gme-trading-settlements>



	INE (SC)	ICE Brent (B)	CME WTI (CL)	GME Oman (OQD)	ICE Futures Abu Dhabi Murban (ADM)
Last Trading Day	The last trading day of the month preceding the contract month	The last business day of the second month preceding the contract month	3 business day prior to the 25th calendar day of the month prior to the contract month. If the 25th calendar day is not a business day, trading terminates 4 business days prior to the 25th calendar day of the month prior to the contract month	The last trading day of the second month preceding the delivery month	Trading ceases at 16:30 Singapore time on the last trading day of the second month preceding the delivery month. If that day is the trading day preceding New Year's Day, then trading ceases on the next preceding trading day
Delivery Period	Five consecutive business days after the last trading day ³	Generally cash-settled through EFP before expiry	From the first calendar day to the last calendar day of the delivery month	Delivery matching and tanker selection in the month preceding the contract month; delivery in contract month	The first Terminal Loading Day of the delivery month to the third Terminal Loading Day prior to the end of the said delivery month
Price Limits	Within $\pm 4\%$ from the settlement price of the previous day	Interval price limits (IPL) functionality acts as a temporary circuit breaker feature on the electronic platform, to diminish the likelihood and extent of short-term price spikes or aberrant market moves. While designed to be in force throughout each trading day, it is expected the protections will be triggered only in the case of extreme price moves over very short periods of time	A circuit breaker that triggers a 2-minute trading halt upon touching a specific price range. Price limit is removed after the fourth triggering on a trading day	Circuit breakers only	Interval price limits (IPL) functionality acts as a temporary circuit breaker feature on the electronic platform, to diminish the likelihood and extent of short-term price spikes or aberrant market moves. While designed to be in force throughout each trading day, it is expected the protections will be triggered only in the case of extreme price moves over very short periods of time

³ Because China's crude oil futures are delivered through standard warrants, "five consecutive business days after the last trading day" refers to the period for the transfer of warrants, while the actual loading of goods (either onto a vessel or into a storage facility) would have been completed before then.

	INE (SC)	ICE Brent (B)	CME WTI (CL)	GME Oman (OQD)	ICE Futures Abu Dhabi Murban (ADM)
Minimum Trading Margin	5% of contract value	Maintenance margin: \$2,158-\$5,322/lot, progressively lower for the longer-dated contracts ⁴	Maintenance margin: \$2,274-\$6,351/lot, progressively lower for the longer-dated contracts ⁵	Maintenance margin: \$5,075-\$8,865/lot, progressively lower for the longer-dated contracts ⁶	Maintenance margin: \$2,736-\$5,706/lot, progressively lower for the longer-dated contracts ⁷
Contract Months	Monthly contracts of recent 12 consecutive months followed by 8 quarterly contracts	96 consecutive months	Monthly contracts listed for the current year and the next 10 calendar years and 2 additional contract months. List monthly contracts for a new calendar year and 2 additional contract months following the termination of trading in the December contract of the current year	Consecutive months are listed for the current year and the next 5 years. A new calendar year will be added following the termination of trading in the December contract of the current year	48 consecutive months
Trading Hours	9:00–11:30, 13:30–15:00 Beijing Time and other hours specified by INE. Continuous trading hours are 21:00–2:30 (+1 day)	New York Time: 20:00–18:00 (+1 day) London Time: 1:00–23:00 Singapore Time: 08:00–06:00 (+1 day) Sunday Open London: 22:00	CME Globex: 18:00–17:00 New York Time (Eastern Time) Sunday to Friday with a 60-minute break each day beginning at 17:00	Electronic trading is open from 16:00 CST/ CDT Sundays and from 16:45 CST/CDT Monday to Thursday and closes at 16:00 CST/CDT the next day, Monday to Friday	New York Time: 20:00–18:00 (+1 day) London Time: 00:00–22:00 Singapore Time: 08:00–06:00 (+1 day) Abu Dhabi: 4:00–2:00 (+1 day)

Source: INE, CME, ICE, GME. As of 2026

⁴ Margin data as of February 27, 2025. Subject to change by the exchange. See <https://www.theice.com/products/219/Brent-Crude-Futures/margin-rates> for details.

⁵ Margin data as of March 9, 2026. Subject to change by the exchange. See <https://www.cmegroup.com/markets/energy/crude-oil/light-sweet-crude/margins.html#pageNumber=10> for details.

⁶ Margin data as of March 9, 2026. Subject to change by the exchange. See <https://www.cmegroup.com/solutions/risk-management/margin-services/product-margins.html?direct=clearing/margins/inter.html#pageNumber=3&exchange=NYM§or=DME&span=2&clearingCode=all> for details.

⁷ Margin data as of March 9, 2026. Subject to change by the exchange. See <https://www.ice.com/products/75443578/Murban-Crude-Oil-Futures/margin-rates> for details.



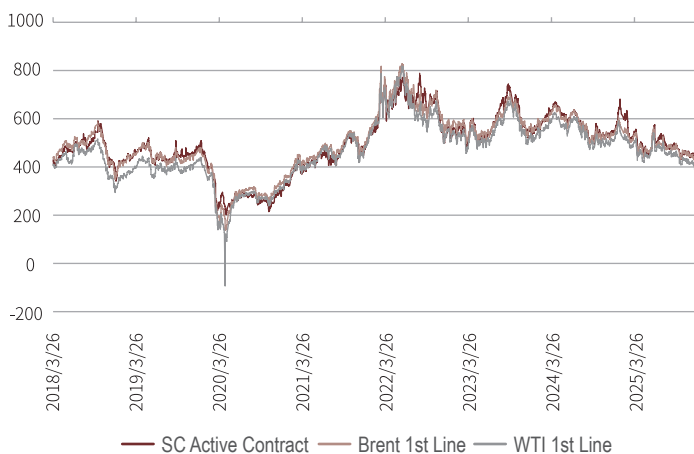
International Crude Oil Price

At the end of 2025, the INE SC active contract closed at ¥432.20/bbl, CME WTI futures closed at \$57.41/bbl, and ICE Brent futures at \$60.91/bbl, a change of -22.81%, -20.12%, and -18.88% respectively from the beginning of the year.

The sluggish global economy and energy transition programs have dragged down oil consumption in 2025. Geopolitical events have buoyed the oil price in the short run without making a substantive impact on the supply. While stimulus policies around the world are trying to spur an economic recovery, the U.S. tariff policies and conflicts in the Middle East have brought additional price uncertainty. As a result, oil price in 2025 followed an inverted “V” trajectory.

The Shanghai crude oil futures market has been running smoothly since launch in 2018, and has been broadly reflecting the regional market supply and demand.

International Crude Oil Price Trend (USD/barrel)



Overview of China's Crude Oil Market

Distribution of Oil Reserves

China's oil resources are concentrated in the Bohai Bay, Songliao, Tarim, Ordos, Junggar, Pearl River Mouth, Qaidam, and East China Sea Shelf basins. Together they boast 17.2 billion metric tons of recoverable reserves, or 81.13% of the country's total.

In terms of depth distribution, 80% of China's recoverable reserves are located in the shallow (< 2000 m) and medium-deep (2000–3500 m) range, with a comparatively small proportion situated at the deep (3500–4500 m) and ultra-deep (> 4500 m) range. In terms of geographical distribution, 76% are found in plains, shallow seas, Gobi and other deserts. In terms of quality, 63% are light oil, 28% are tight oil, and 9% are heavy oil.

In China, CNPC (China National Petroleum Corporation), Sinopec (China Petrochemical Corporation) and CNOOC (China National Offshore Oil Corporation) operate a number of large domestic oil and gas fields. In particular, CNPC owns the Daqing, Changqing, Yanchang, Xinjiang, Liaohe, Jilin, Tarim oil fields; Sinopec owns the Shengli, Zhongyuan, and Jiangnan oil fields; and CNOOC owns the Bohai oil fields, among others.



Production and Consumption

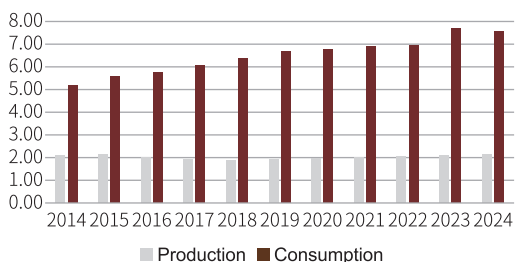
China's crude oil production is heavily concentrated in the northern regions (northeast, northwest, and north China), Shandong, and the Bohai Bay.

Consumption spreads across the whole country, but centers around the Bohai Bay, Yangtze River Delta, and Pearl River Delta.

China's biggest oil consumer is its industrial sector, followed by transportation, agricultural, commercial, and residential sectors. Industrial oil consumption has continuously accounted for at least 50% of total consumption; transportation comes in second, accounting for about 25%.

According to EI Statistical Review of World Energy 2025, from 2014 to 2024, China's crude oil production went up from 211 million to 213 million metric tons, an average annual increase of 0.1% and making China the world's seventh-largest oil producer. China is also the world's second-largest oil consumer, with consumption level increasing at an average annual rate of 3.8% over the same period, from 518 million to 755 million metric tons per year.

China's Crude Oil Production and Consumption (100 million metric tons)



Source: EI Statistical Review of World Energy 2025

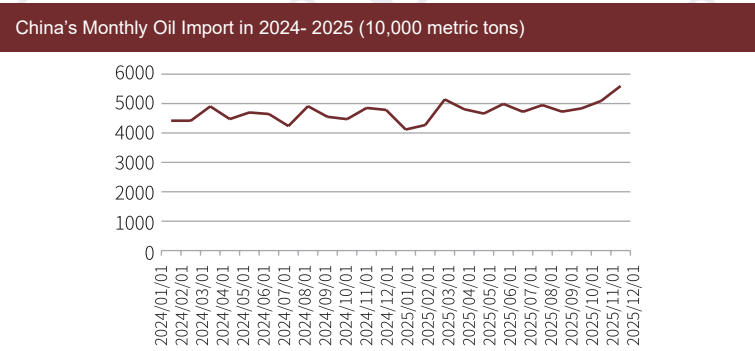
Imports and Exports

China became a net importer of petroleum products in 1993, and a net importer of crude oil in 1996. Since then, surging domestic demand has steadily driven up the country's crude oil imports.

According to China Customs, China's crude oil imports rose 4.52% between 2024 and 2025 from 553 million metric tons to 578 million metric tons. At present, China is the world's largest importer of crude oil.

In 2025, the top ten crude oil exporters to China were: Russia, Saudi Arabia, Iraq, Malaysia, Brazil, UAE, Oman, Angola, Kuwait, Canada, and Indonesia. The Middle East as a whole remained the largest exporter to China, accounting for 42.32% of the country's total imports.

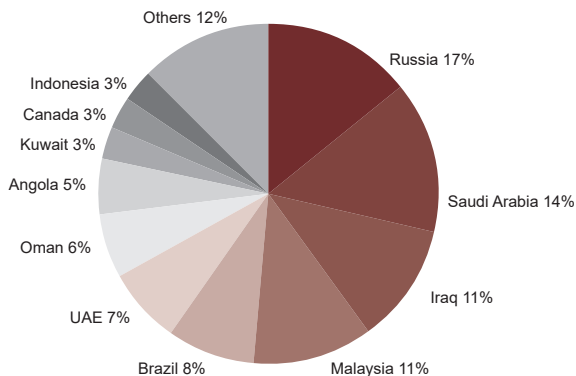
Crude oil was an important source of export income for China before the 1990s. With rising domestic demand, however, export volume has been falling since the mid-1990s. At present, a small export volume remained, mostly owing to long-term trade agreements. According to the EI Statistical Review of World Energy 2025, China exported 900,000 metric tons of crude oil in 2024, a year-on-year increase of 12.50%.



Source: General Administration of Customs



China's Oil Import Structure in 2025

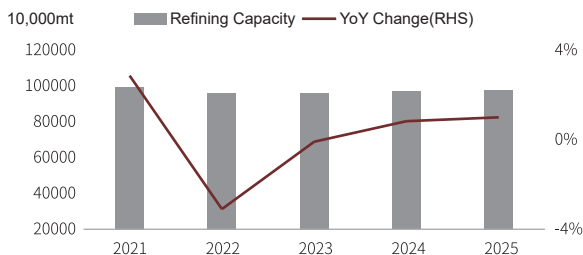


Source: General Administration of Customs

Oil Refining in China

Sublime China Information (SCI99) reports that while China's refining capacity followed a "V" trajectory in the last five years, refined oil output actually showed the opposite trend. The production drop was particularly notable between 2024 and 2025, reflecting the ongoing transformation of Chinese refineries. In 2025, phasing-out of outdated capacity was outstripped by the opening of new refineries, resulting in a continuing increase in China's primary refining capacity. According to SCI99, China's atmospheric and vacuum distillation capacity reached 968.15 million metric tons/year in 2025, up 0.94% year-on-year. However, due to shrinking domestic demand for gasoline and diesel and a challenging business environment for independent refineries, China's gasoline and diesel production fell in 2025. Only kerosene output maintained a growth momentum as total refined oil production dropped by 3.53% compared with the year before.

Refining Capacity of China's Refined Oil Refineries in 2021–2025



Source: SCI99

In 2021–2025, China maintained a high level of primary refining capacity, but overall growth rate continued to slow. Driven by policy changes, structural upgrades, and supply-demand dynamics, the total refining capacity has shown a falling marginal increase in recent years, even declining altogether in 2022 and 2023. This shows industry transformation and upgrade is now the prevailing trend.

Primary Refining Capacity of China's Major Refineries

	Sinopec	CNPC	CNOOC	Total
Primary Refining Capacity (million mt/year)	316.40	209.20	58.70	584.30
Refineries	28	26	10	64

Source: SCI99

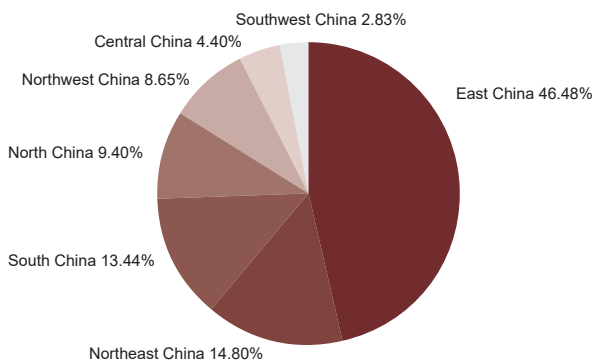
In 2025, the primary refining capacity of China's major state-owned refineries stood at 584 million metric tons, accounting for 60.35% of the national total. In particular, Sinopec continued to lead in both refining capacity—representing 32.68% of the country's total, up 0.41 percentage points year-on-year—and number of plants. It is followed by CNPC at 21.61%, down 1.24 percentage points, and CNOOC at 6.06%, up 0.36 percentage points.



Because most of China's state-owned and independent refineries are located in Shandong, East China became the primary production area of refined oil in 2021–2025. However, in 2025, increased maintenance and shutdowns at independent refineries in Shandong led to a significant decline in utilization rate. As a result, East China only produced 172 million metric tons of refined oil, with market share dropping to 41.88% of the national total. This also caused a year-on-year decrease in outflows from East China and Shandong in particular. Southwest China, which has few refineries, was a net inflow area. Its output accounted for only 3.24% of the national total, the lowest of all regions.

Regional ranking by descending refined oil output in 2025 was as follows: East China, South China, Northeast China, Northwest China, North China, Central China, and Southwest China. Notably, South China leapfrogged Northeast China in 2025, mostly owing to the relocation of CNPC Dalian Petrochemical, which reduced the utilization rate and output in Northeast China. Regional ranking by output capacity, from highest to lowest, was as follows: East China, Northeast China, South China, North China, Northwest China, Central China, and Southwest China.

China's Primary Refining Capacity in 2025 by Region



Source: SC199

COMPONENTS AND INFLUENCERS OF CRUDE OIL FUTURES PRICE

Components of Crude Oil Futures Price

Like many other commodity futures products, the price of crude oil futures has two main components: (1) costs, profits, and taxes related to the production process; and (2) costs, circulation expenses, and expected profits from futures trading. These can be further classified into five sub-components for ease of understanding:

1. Production Costs

As is the case with other commodities, the production of crude oil incurs costs such as equipment expenses, wages and salaries, and local taxes. These expenditures form the “foundation” of the oil price. However, it is important to note the two distinctive features in how the production of oil, or more precisely the production costs of crude oil, relates to the price of crude oil futures. First, in international markets, the price of crude oil futures is only weakly influenced by the production costs. This is due to the uneven global distribution of oil resources and a strong baseline demand, which give rise to what is known in economics as a high “differential rent,” meaning the international oil price is generally aligned with the price of higher-cost crudes or alternative energy sources. In fact, crude oil’s production costs, which vary wildly depending on the deposit characteristics, oil qualities, and extraction techniques, are far less than its selling price.



Second, the exploration, exploitation, and other pre-production costs are linked to the market price only in the sense that they are a factor in the decision-making process that determines the output level of the oilfield, and therefore the market supply. Early stage investment warrants careful consideration because it is a major part of the production cost of crude oil, which can be broadly categorized into geological survey costs, construction costs for drilling equipment and ground facilities, and extraction expenses. In practice, early stage expenses are often more important than extraction expenses in the production cost equation.

2.Product Profits

A business has many operating objectives – economic, social, etc. The economic objective is what makes it an enterprise and at the center of that is profit. The price of crude oil futures includes profit from the production process, and because the formation of crude oil requires specific geological conditions, which results in extremely uneven distribution of oil resources around the world, this profit is much higher than in conventional industries, and more characteristic of those of monopolistic industries. According to economic principles, in a monopoly, the price of a product is no longer directly determined by or correlated to the cost of production or the intrinsic value of the product, but rather by the demand and purchasing power of the buyers. While the crude oil market is not fully monopolistic, the bulk of crude resources and output have long been under the control of a supplier group consisting of transnational oil companies, OPEC countries, and non-OPEC oil-producing countries, who have an interest to keep the oil prices at a high but not unbearable level to reap the maximum profit. This dynamic explains why, despite the vast differences in the production cost of crude oil around the world, almost all oilfields are put into operation: simply stated, a higher production cost only causes a minor dent to the bottom line, but nothing to make the whole enterprise unprofitable. This expected profit level is also reflected in the price of crude oil futures.

3.Trading Expenses

Futures trading expenses are those costs incurred or instigated during futures trading, such as commissions and transaction fees, that are payable by the traders. To trade crude oil futures, the trading parties need to have not only the appropriate personnel and equipment, but also a portion of their trading funds tied up as margin. This margin normally equals to about 5%-10% of the notional value of the contract. It is a form of "investment" required for trading on a futures exchange, but not a component of the futures price. The cost of such idle funds and service charges is ultimately reflected in the futures price and, together with the other trading costs, constitute an appreciable portion of the price of crude oil futures.

4.Expected Profits from Trading

Expected profit from futures trading includes both the average return that would be expected on the trading funds if they were invested elsewhere and the risk premium for assuming the trading risks. Accordingly, traders of crude oil futures can be classified as hedgers and speculators. While hedgers enter the market to primarily control their trading risks, without any excessive expectation for profit, speculators do so for the sole purpose of making a profit from price fluctuations. Because speculators are essential to market activity and the wellbeing of futures contracts, the price of crude oil futures also reflects their reasonable profit expectations.



5.Circulation Expenses

Circulation expenses include transportation and incidental expenses, packaging fees, and safekeeping fees for the underlying commodities. Given that futures trading is based on the deliverability of the underlying commodities at a future time, most futures contracts specify a delivery venue. For example, the delivery venue of NYMEX light sweet crude oil futures is Cushing, Oklahoma, USA. Because most of the crude oil being traded is not produced at the point of delivery, its producers must either ship it to the designated location or provide a distance-based compensation to the buyers. These expenses are also an important part of the price of crude oil futures.

■ Influencers of Crude Oil Futures Price

Because the futures market is built on the spot market, its further development is inextricably linked to the latter. They react very similarly to market updates, such that prices in these two markets shadow each other's movements both in direction and in magnitude of fluctuation. This kind of interactivity and sustained balance also apply to the futures and spot prices of crude oil.

International oil prices are determined by both the futures market and the spot market. Therefore, factors that influence the spot price, such as imbalance between the supply and demand, may also impact the futures price. In some cases, however, the two prices may diverge due to certain special factors that influence only the futures price, such as speculation by investment funds and other financial factors.

In addition, like other commodities, the price of crude oil is also swayed by market supply and demand. However, because crude oil has the dual status of being a key strategic resource, its price is also substantially influenced by political, economic, diplomatic, and military factors. In sum, the price of crude oil futures is impacted by:

- 1.spot market factors;
- 2.speculation by investment funds;
- 3.exchange rate, interest rate, and capital liquidity;
- 4.emergencies and political factors.

Costs of Crude Oil Imported to Bonded Zones

China mainly uses the average of Platts Dubai and Oman prices as the pricing benchmark for crude oil imported from Middle East, and the Brent futures price for crude oil imported from West Africa.

The cost of crude oil imported to domestic bonded zones is generally calculated by the following formula:

Cost of imported crude oil in bonded zones = CIF × exchange rate + other expenses

- Exchange rate is based on the daily currency quotations;
- Other expenses include: import agency fees, port/dock charges, storage fees, commodity inspection fees, drayage, sanitation inspection fees, insurance, interest, urban maintenance and construction tax, educational surcharge, flood prevention fees, etc.

Crude oil traded on INE is based on "Net pricing, bonded delivery", i.e., the trading price is net of VAT and customs duties. If the crude oil is transported from a bonded zone to within the territory of China, its price after tax (in RMB) will be as follows:

Crude oil price (incl. tax) = Bonded crude oil price × (1 + VAT rate) × (1 + Custom duty rate)

- VAT rate is 13%;
- Custom duty rate: 0 for the most favored nations; 85 yuan/metric ton otherwise.

*As of February 2026



HEDGING AND ARBITRAGE WITH CRUDE OIL FUTURES

Hedging with Crude Oil Futures

Hedging is a futures trading practice aimed to mitigate price risks in the spot market. To create a hedge, the trader buys (or sells) futures contracts whose underlying asset is of identical quantity to that sold (or bought), or to be sold (or bought), in the spot market, so that losses in the spot market will be favorably offset by gains in the futures market and vice versa. The offsetting mechanism between the spot commodity and futures commodity so established helps reduce the price risk.

1. Short Hedge by Oil Producers and Refineries

Oil producers and oil refineries, suppliers of crude oil and refined oil, respectively, have an interest to maintain a reasonable profit margin for the finished goods they are about to supply to the market and the in-process goods they intend to sell to the market in the future. To avoid potential losses at the actual time of sale due to price change, they can take a short hedge position on the corresponding futures product, i.e., first sell the same quantity of futures product, and then, at time of sale of the spot product, purchase the same quantity of futures product to close out their position.

Here is an example: an oilfield learned in July that the oil price was 350 yuan/barrel, which it believed to be quite favorable and increased its output as a result. However, the oilfield was also worried about an oversupply in the spot market would cause the oil price to fall, eroding its profit margin. To avoid the risk of falling prices, the oilfield decided to take a short hedge in crude oil futures on INE. This hedge and the resulting gains are illustrated below:

	Spot Market	Futures Market	Basis
July 1	Price of crude oil: ¥350 a barrel	10 lots of SEP crude oil contract sold at ¥370 a barrel	-¥20 a barrel
August 1	10,000 barrels sold at ¥325 a barrel	10 lots of SEP crude oil contract bought at ¥345 a barrel	-¥20 a barrel
Hedging Result	- ¥25 a barrel	+ ¥25 a barrel	
Net gain or loss: 0			

While the adverse price movement of RMB 25 a barrel in the spot market incurs a loss of RMB 250,000 to the oilfield, a gain by the same amount in the futures market has offset that, thereby eliminating the negative effect from the price change.

2.Long Hedge by Petroleum Product Processors and Refined Oil Consumers

Petroleum product processors and refined oil consumers – oil refineries, petrochemical companies, airlines, to name a few – are concerned about a price increase in crude oil or refined oil, which would raise their cost of raw materials. To avoid potential losses resulting from a price hike at time of purchase of such raw materials, they can take a long edge position in the futures market, i.e., first buy the same quantity of futures product, and then, at time of purchase of the relevant spot product, sell the futures product to close out their position.

Example: through a forward contract concluded on June 1, an oil refinery agreed to supply a local distributor with a shipment of goods in September. At the time of contract execution, the spot crude oil was trading at RMB 350 a barrel, and the oil refinery had neither the goods in stock nor any guaranteed source and price of raw materials. To control its cost and lock in profit, the oil refinery decided to enter into a crude oil futures trade on INE. The details of this trade are given below:



	Spot Market	Futures Market	Basis
June 1	Price of crude oil: ¥350 a barrel	10 lots of SEP crude oil contract bought at ¥370 a barrel	-¥20 a barrel
August 25	10,000 barrels bought at ¥375 a barrel	10 lots of SEP crude oil contract sold at ¥395 a barrel	-¥20 a barrel
Hedging Result	- ¥25 a barrel	+ ¥25 a barrel	
Net gain or loss: 0			

While the adverse price movement of RMB 25 a barrel in the spot market incurs a loss of RMB 250,000 to the oilfield, a gain by the same amount in the futures market has offset that, thereby eliminating the negative effect from the price change.

3.Hedging by Petroleum Product Dealers

Petroleum product dealers such as oil traders and storage and transportation service providers buy and sell spot commodities regularly. Because any mismatch in trading quantity and time will result in risks, petroleum product dealers often choose a hedging strategy based on their monthly net exposure in the spot market.

Arbitrage with Crude Oil Futures

Arbitrage is a trading strategy in which a trader simultaneously buys and sells two different futures contracts to seek profit from a favorable change in the basis between the contracts. Arbitrage includes calendar arbitrage and cross-product arbitrage.

1. Calendar Arbitrage

In calendar arbitrage, the trader seeks to make a profit by offsetting positions in two futures contracts with the same underlying asset but different delivery months when there is any unusual deviation from the normal basis between the two contracts. Calendar arbitrage can be classified into bull spread and bear spread.

In a bull spread with crude oil futures, the trader goes long on a nearby month contract and simultaneously goes short on a far month contract, and stands to profit when the price of the front month contract rises more than that of the far month contract. In a bear spread, by contrast, the trader would go short on a nearby month contract and go long on a far month contract, making a profit when the price of latter falls less than that of the former.

Bull Spread			
			Spread
May 1	10 lots of AUG crude oil contract bought at ¥350 a barrel	10 lots of OCT crude oil contract sold at ¥356 a barrel	¥6 a barrel
June 1	10 lots of AUG crude oil contract sold at ¥360 a barrel	10 lots of OCT crude oil contract bought at ¥362 a barrel	¥2 a barrel
Arbitrage Result	+ ¥10 a barrel	- ¥6 a barrel	
Net gain = (¥10 a barrel - ¥6 a barrel) × 10,000 barrels = ¥40,000			



The above example shows that, in a normal market, the success of an arbitrage hinges on a narrower spread in the future. For crude oil futures, the spread between two consecutive month contracts is generally decided by the monthly carrying charge for crude oil warrants. For two such contracts within the same crude oil production year, if the spread between them is both greater than, and expected to fall back to, the carrying charge, then a profit can be made by simultaneously selling the far month contract and buying the nearby month contract. A larger spread would also mean a lower risk and higher profit.

The situation for an arbitrageur reverses in an inverted market, where a larger spread in the future becomes profitable. Moreover, whereas in a normal market the spread between two consecutive months is tethered to the carrying charge, here the premium of the front month over the far month is not capped, meaning that an arbitrage can have a substantial payoff at limited risks.

Bear Spread			
			Spread
July 1	10 lots of OCT crude oil contract sold at ¥354 a barrel	10 lots of DEC crude oil contract bought at ¥355 a barrel	¥1 a barrel
August 1	10 lots of OCT crude oil contract bought at ¥350 a barrel	10 lots of DEC crude oil contract sold at ¥352 a barrel	¥2 a barrel
Arbitrage Result	+ ¥4 a barrel	- ¥3 a barrel	
Net gain = (¥4 a barrel - ¥3 a barrel) × 10,000 barrels = ¥10,000			

Unlike the earlier examples, in a bear spread, the success of the arbitrage in a normal market hinges on whether the spread will widen. If the spread between two consecutive month contracts is both less than, and expected to rise up to, the carrying charge, then a profit can be made by simultaneously buying the far month contract and selling the nearby month contract. The smaller the spread is, the lower the risk and the higher the profit will be.

If it were an inverted market, the arbitrage would be profitable from a narrowing spread. And as described earlier, because the spread between the nearby month contract and the far month contract in an inverted market will not be reined in by the carrying charge as in a normal market, an arbitrage in this type of market has limited profit potential but unlimited risk.

2. Cross-Product Arbitrage

Cross-product arbitrage is designed to generate profit from the price difference between two futures contracts with different but related underlying commodities. Specifically, the arbitrageur first buys one futures contract and simultaneously sells another of the same delivery month and for a related commodity, then waits for an opportune moment in the future to offset both to make profit. To be effective, a cross-product arbitrage must satisfy the following conditions: (1) the two commodities should be related and interchangeable to some extent; (2) the commodities should be affected by the same factors; and (3) the futures contracts being bought and sold should generally have the same delivery month.

■ Arbitrage between related commodities

There is generally a reasonable spread between the prices of two related commodities. Any deviation from this reasonable spread creates arbitrage opportunities. For example, if the spread is expected to narrow, then buying the lower-price contract and selling the higher-price contract should generate a profit.

■ Arbitrage between raw material and finished product

Normally there is a price difference between a raw material and any finished product made from such raw material. An arbitrage opportunity exists between these two commodities if this price difference deviates from the normal range. As is the case above, if the spread is expected to narrow, then buying the lower-price contract and selling the higher-price contract should generate a profit.



GUIDE TO CRUDE OIL FUTURES TRADING

Modes of Access

Domestic Investors

Domestic investors may trade crude oil futures through a domestic Futures Firm Member ("FF Member") or, for those that are eligible for INE membership, directly as a Non-Futures Firm Member ("Non-FF Member").

Overseas Investors

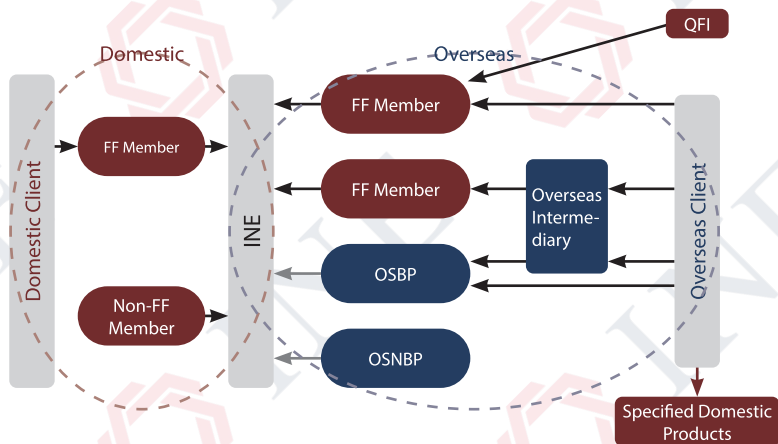
Overseas clients can access the Shanghai crude oil futures market as a Qualified Foreign Investor (QFI) or through one of the four accesses generally available to Specified Domestic Products (such as INE's crude oil futures):

Access 1: Global customers may trade through a domestic Futures Firm Member (FF Member) of INE;

Access 2: An INE-recognized Overseas Intermediary can help its global customers execute and clear trades through a carrying broker, either a domestic FF Member or an Overseas Special Brokerage Participant (OSBP) of INE;

Access 3: An INE OSBP having direct trading access to INE can help its global customers execute trades on INE, but clearing and delivery must be handled by its carrying broker, who must be an INE's FF Member;

Access 4: A global customer can also trade directly at INE as an Overseas Special Non-Brokerage Participant (OSNBP), but clearing and delivery must be handled by its carrying broker, who must be an INE's FF Member.



Note: 1) Black arrows indicate direct access to trading, clearing, and delivery. Grey arrows indicate direct access to trading, but OSPs must complete clearing and delivery through an FF Member. 2) WFOEs are to trade as domestic Clients. QFIs, similar to domestic Clients, may trade those products that are approved by regulators including the China Securities Regulatory Commission, the People's Bank of China, and the State Administration of Foreign Exchange and listed by INE.



Qualification Application Process for Members and Overseas Special Participants (“OSP”)

Apply for membership or certification as an OSP

INE accepts application

INE conducts preliminary review

INE approves the application

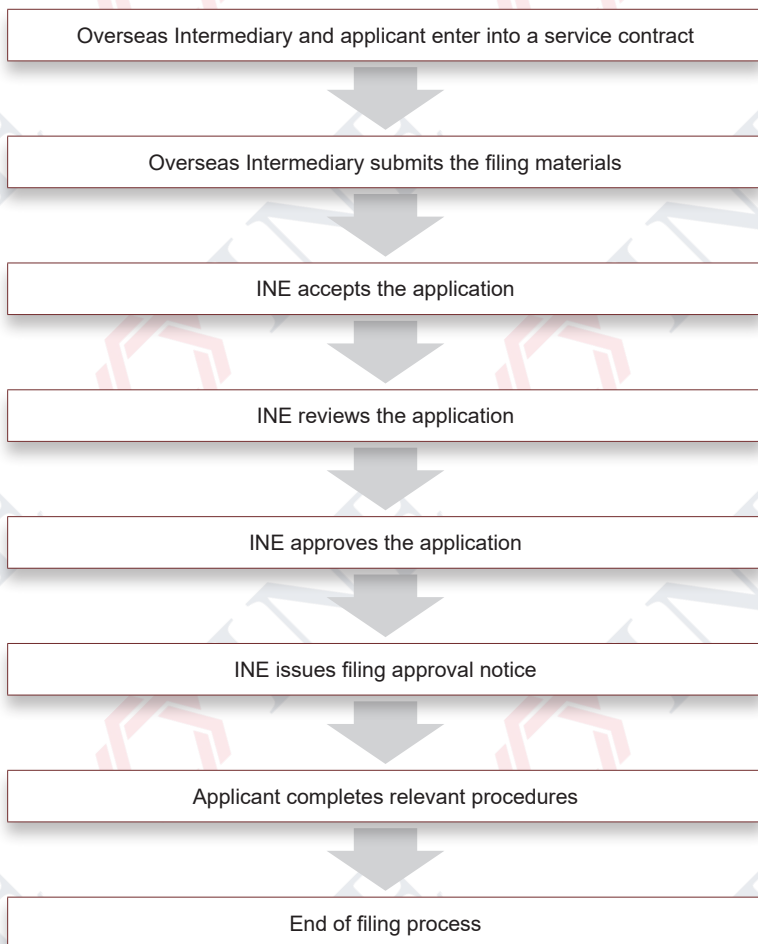
INE issues market entry approval notice

Complete relevant procedures

End of application process

Note: See INE official website for more details: Services → Members and Overseas Special Participants → Become A Member/An OSP → Admission Procedure

Filing Procedures for Overseas Intermediaries



Note: See INE official website for more details: Services → Members and Overseas Special Participants → Become A Member/An OSP → Filing Procedures for Overseas Intermediaries



Account Opening Process for Clients

The client account-opening process consists of three steps: select an account-opening institution, open the account, and start trading with the new account. The second step can be further divided into three stages: preparation, application, and post-application procedures to be completed by the futures firm (or other account-opening institutions) in conjunction with CFMMC and INE.

Select an institution for opening account



Complete account-opening procedures



Start trading with the new account

Select an institution for opening account

Clients may select an account-opening institution from the list of futures firms, Overseas Special Brokerage Participants, and Overseas Intermediaries available on INE's website.

Note: Please go to INE website: Services → Members and Overseas Special Participants

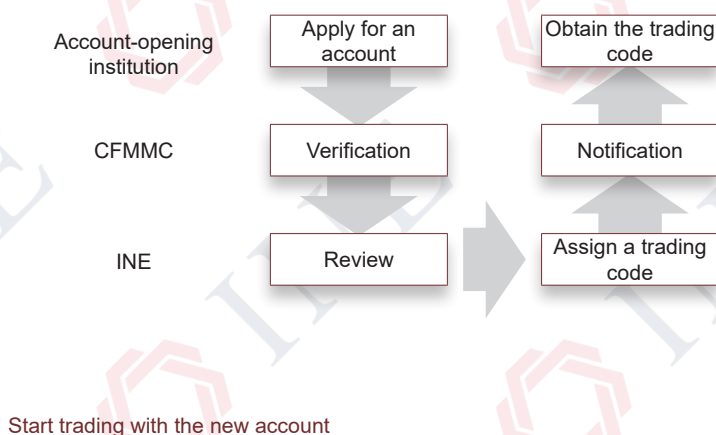
Complete account-opening procedures

1. Before opening an account, it is recommended to contact the account-opening institution to obtain the list of the documents needed on the day of application, such as identifications and other materials required by the account-opening institution. Note: These requirements may vary by the account-opening institution.

2. Visit the account-opening institution. Provide the required materials, complete the suitability assessment and other processes, and, after fully understanding the account-opening documents and the risks of trading futures, sign the documents.

3. The account-opening institution will submit the client's application to CFMMC for review and verification. Upon approval, CFMMC will forward it to INE, who will conduct a second review and issue a trading code to the client. INE will send the results back to CFMMC, who will then forward the same to the client through the account-opening institution.

4. For details regarding the procedures of the account-opening institution, please visit the INE website: Services → Trading → Account Opening





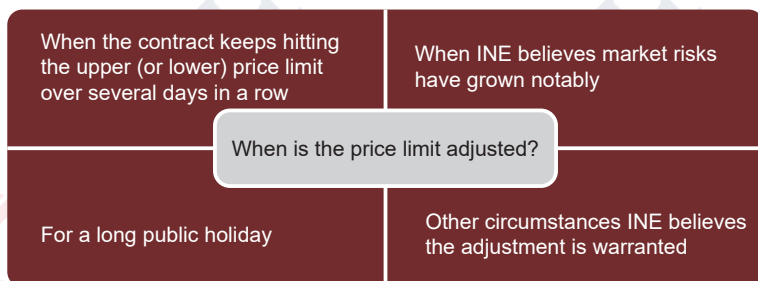
CRUDE OIL FUTURES (SC) TRADING AND CLEARING GUIDE

Crude Oil Futures Trading Rules

Price Limit

Price limit refers to the highest or lowest transaction price permitted for a contract on a particular trading day. A quote beyond this range is deemed invalid and discarded.

Example: If SC1809 has a settlement price of RMB 500 yuan/bbl on a day and is subject to a price limit of 5%, the permitted price range for the next trading day would be from $500.0 \times (1-5\%)$ to $500.0 \times (1+5\%)$, i.e., (475.0, 525.0).



Note: For details please visit the official INE website: Data → Business Data → Trading Parameters (Futures)

Position Limit

Position limit refers to the maximum size of long or short positions specified by INE that may be held in a contract by a Member, OSP, Overseas Intermediary, or client.

- Positions are classified into general positions, hedging positions, and arbitrage positions. The percentage-based (i.e., relative) and fixed-amount (i.e., absolute) limits for general positions are detailed in the table below.
- Positions held by accounts linked by actual control relationship are aggregated for purposes of applying the position limit. Actual control relationship is identified in accordance with the criteria and procedures established by INE rules.
- Position limits for a contract vary over the course of its life.
- Both Members and clients are subject to position limits, either relative or absolute.
- For a client that has opened an account with multiple account-opening institutions, the aggregate positions held by the client through all such accounts may not exceed the position limit for a single client.
- An individual client who is unable to issue or accept the tax invoice prescribed by INE is not permitted to hold any open positions in an SC contract after the closing of the eighth trading day before the last trading day of the contract.

Position Limits for Crude Oil Futures Contract over Its Lifecycle						
	From listing to the last trading day of the third month before the delivery month		Second month before the delivery month		Month before the delivery month	
	Fixed-amount position limit (lots)		Fixed-amount position limit (lots)		Fixed-amount position limit (lots)	
	Non-FF Members, OSNBPs	Clients	Non-FF Members, OSNBPs	Clients	Non-FF Members, OSNBPs	Clients
SC	3,000	3,000	1,500	1,500	500	500

Note: Open interest and the fixed-amount position limit are both on a single-counted basis (long or short).



Hedging Quota

If the general position limit is inadequate for those with hedging needs, certain Members and clients can apply for a hedging quota, subject to approval by INE.

Application procedures for hedging quota:

The client's account-opening institution, Non-FF Member, or OSNBP prepares the application materials

Application materials are submitted through INE's electronic hedging position management system

INE reviews the application

The client's account opening institution, Non-FF Member, or OSNBP receives INE's decision

The account-opening institution prints out the Application (Approval) Form and gives it to the client

Application materials for hedging quota:

Hedging quota for regular months	Hedging quota for nearby delivery months
■ The Application (Approval) Form for Hedging Quota for Regular Months; ■ A copy of the business license, certificate of incorporation, or other documents which show the applicant's scope of business; ■ Overview of the production and trading of physical commodities in the previous year or the latest audited annual financial report; ■ A business plan of physical commodities for the current year or the following year, and any purchase and sale contracts or other valid certificates related to the application for hedging; ■ The hedging strategy; ■ Hedging management rules, if the applicant is a Non-FF Member or an OSNBP; ■ Other materials required by INE.	■ The Application (Approval) Form for Hedging Quota for Nearby Delivery Months; ■ A copy of the business license, certificate of incorporation, or other documents which show the applicant's scope of business; ■ Relevant materials that demonstrate the authenticity of the hedging needs, including the production plan for the current year or the previous year, warrants for physical commodities, processing orders, purchase and sale contracts, purchase and sale tax invoices, or other valid certificates of the ownership of physical commodities corresponding to the application quota; ■ Hedging management rules, if the applicant is a Non-FF Member or an OSNBP; ■ Other materials required by INE.

Notes: Regular months are the period from the listing day of the contract to the last trading day of the third month before the delivery month. Application for hedging quota for regular months should be submitted within this period. Nearby delivery months are the second and the first months before the delivery month. Application for hedging quota for nearby delivery months should be submitted within the period from the first trading day of the third month before the delivery month to the last trading day of the second month before the delivery month.

Arbitrage Quota

If the general position limit is inadequate for those with arbitrage needs, certain Members and clients can apply for an arbitrage quota, subject to approval by INE.

Application procedures for arbitrage quota:



The client's account-opening institution, Non-FF Member, or OSNBP prepares the application materials

Application materials are submitted through INE's electronic arbitrage position management system

INE reviews the application

The client's account opening institution, Non-FF Member, or OSNBP receives INE's decision

The account-opening institution prints out the Application (Approval) Form and gives it to the client

Application materials for arbitrage quota:

Arbitrage quota for regular months	Arbitrage quota for nearby delivery months
■ An Application (Approval) Form for Arbitrage Quota for Regular Months; ■ The arbitrage trading strategies, specifying the source and size of funding and whether the transactions would be calendar spread arbitrage or cross-product arbitrage; ■ Other materials required by INE.	■ An Application (Approval) Form for Arbitrage Quota for Nearby Delivery Months; ■ The arbitrage trading strategies, specifying the source and size of funding, whether the transactions would be calendar spread arbitrage or cross-products arbitrage, the arrangement for position establishment and reduction, and intention of delivery, etc.; ■ Price deviation analyses for the contract(s) concerned; ■ Other materials required by INE.

Note: Regular months are the period from the listing day of the contract to the last trading day of the third month before the delivery month. Nearby delivery months are the second and the first months before the delivery month. Application for arbitrage quota for nearby delivery months should be submitted within the period from the first trading day of the third month before the delivery month to the last trading day of the second month before the delivery month.

Forced Position Liquidation

INE implements forced liquidation as a means to managing market risks. Forced liquidation by INE is carried out under the following circumstances:

1. The clearing deposit balance of a Member on any of INE's internal ledgers (whether for the Member itself or for any entity it provides clearing services to) becomes negative and the Member fails to deposit sufficient margin within the specified time limit;
2. The position held by a Non-FF Member, an OSNBP, or a client has exceeded the applicable position limit;
3. A Non-FF Member, an OSNBP, or a client fails to bring its position in a futures contract to multiples of the corresponding delivery unit within the specified time limit, or is not qualified to participate in the delivery process;
4. A violation of INE rules occurs and warrants the forced liquidation;
5. An emergency measure implemented by INE warrants the forced liquidation; or
6. There is any other circumstance that necessitates forced liquidation.

Forced liquidation should be performed by Members and OSPs first, within the first trading session on a trading day unless otherwise specified by INE. If forced liquidation is not completed within this period, INE will carry it out itself.

Gains arising from forced liquidation are handled in accordance with relevant rules. Any costs and losses incurred, including any additional losses arising from failed forced liquidation due to market reasons, are solely borne by the subject of forced liquidation.



TAS Order

Trading at Settlement (“TAS”) order allows a trader to, during the specified trading session, place an order to buy or sell a futures contract at its current day’s settlement price or at that price plus or minus some ticks.

I. Basics

■ Definition: Trade at Settlement (TAS) is an order type that allows a trader to enter an order to buy or sell an eligible futures contract (“eligible contract”) at the current day’s settlement price or a number of tick sizes above or below the settlement price. The eligible contracts are specified by INE.

■ Order matching rules: TAS orders may only be matched with other TAS orders for the same contract. TAS orders are matched by the “trading volume maximization” rule during central auction and by price-time priority during continuous auction.

■ Execution price: After TAS orders are executed, the transaction price will be calculated according to the order matching rules, and finalized after the daily settlement price of corresponding eligible contract is determined. Under no circumstances can the final transaction price exceed the price limit for that contract.

■ Order properties: For eligible contracts, a TAS order may be indicated as “open”, “close today” or “close previous”; and “general” or “hedging”.

■ Order type: TAS orders cannot be attached with the fill-or-kill (FOK) or fill-and-kill (FAK) for the time being.

■ Trading hours: TAS orders are available during the central auction, the first trading session, and 10:30 a.m. to 11:30 a.m. of the daytime trading hours. At the end of the TAS trading hours, all unfilled TAS orders will be automatically canceled by the system.

II. Special Notes

(i) The trading privileges and minimum and maximum order sizes for an eligible contract also apply to the TAS orders for that contract. For purposes of the position limit, hedging quota, and trading limit, TAS orders are calculated on an aggregated basis with other orders in the eligible contract.

(ii) If an eligible contract is trading at the price limit or TAS orders on that contract are being executed at the maximum or minimum permitted number of tick sizes, the TAS orders in the contract will not be matched by the principle of “close-out orders first” and will not affect the determination of Limit-locked Market.

(iii) Market data on eligible contracts published during the trading hours does not include the turnover or trading volume from TAS transactions, while the open interest from TAS transactions is included in the change of open interest of the eligible contracts. Statistics following market close and settlement do reflect TAS transactions in the turnover and trading volume of the corresponding contracts.

(iv) During the trading hours, the Exchange will calculate the margin to be frozen or released for TAS transactions based on the settlement price of the eligible contract of the previous trading day and the rules of larger-side margining (or portfolio margining once it is launched). During daily settlement at market close, the Exchange will calculate and collect margin on the positions established by TAS transactions based on the settlement price of the eligible contract of the current day and the rules of larger-side margining (or portfolio margining once it is launched).

III. TAS Order Examples

(i) Opening New Position – Example 1

Assume a client has no existing position on SC2308 and places a TAS order for 40 lots on SC2308 as “long, general, open”, which is then matched with an existing TAS order for short 15 lots at a price of 1.2 yuan/ barrel. As a result, the client will hold 15 lots of long, general, and today’s position on SC2308. The remaining 25 lots will be automatically canceled by the system if they cannot be matched by 11:30 a.m.

If at market close the settlement price of SC2308 is determined to be 560.7yuan/ barrel, then the 15 lots filled through the TAS order will be finally traded at 561.9 yuan/barrel.

(ii) Opening New Position – Example 2

Assume a client has no existing position on SC2309 and submits a TAS “short, general, open” order for 10 lots. After 5 lots are filled at a price of -0.8 yuan/ barrel, the client will hold 5 lots of short, general, and today’s position on SC2309. If now the client places and executes a limit order (not TAS) for 3 lots of SC2309 as “long, general, and close today”, the client will hold 2 lots of short, general, and today’s position on SC2309.



If at market close the settlement price of SC2309 is determined to be 559.6 yuan/barrel, then the 5 lots filled through the TAS order will be finally traded at 558.8 yuan/barrel.

(iii) Closing Out Today's Position

Assume a client has no existing position on SC2309 and submits a limit order (not TAS) for 10 lots of SC2309 as "short, general, and open". After 4 lots are filled, the client will hold 4 lots of short, general, and today's position on SC2309. If the client then places and executes a TAS "long, general, close today" order for 1 lot at 0 yuan/barrel, the client will hold 3 lots of short, general, and today's position on SC2309.

If at market close the settlement price of SC2309 is determined to be 559.6 yuan/barrel, then the 1 lot filled through the TAS order will be finally traded at 559.6 yuan/barrel.

(iv) Closing out Previous Positions

Assume a client holds 50 lots of long, hedging, and previous position on SC2310 and submits a TAS "short, hedging, close previous" order for 50 lots. Once 40 lots of the order are filled at -1.0 yuan/barrel, the client will hold 10 lots of long, hedging, and previous position on SC2310.

If at market close the settlement price of SC2310 is determined to be 553.7 yuan/barrel, then the 40 lots filled through the TAS order will be finally traded at 552.7 yuan/barrel.

(v) TAS Orders Trading at the Price Limit

On a given day the lower price limit of SC2311 is 551.2 yuan/barrel. Assume a client has no existing position on SC2311 and submits a TAS "short, general, and open" order for 10 lots on that day. Once 5 lots of the order are filled at -2.0 yuan/barrel, the client will hold 5 lots of short, general, and today's positions on SC2311.

At market close the settlement price of SC2311 is determined to be 552.9 yuan/barrel. Because the rules of the Exchange say that the transaction price of TAS orders may not exceed the upper or lower limit price of the contract, the 5 lots filled through the TAS order will be finally traded at 551.2 yuan/barrel.

Note: More details are available on INE website: Services → Trading → TAS Guideline

Monthly Average Settlement Price

I. Basics

(i) Formulas for monthly average settlement price

1. MASP for an SC calendar month contract =

$$\frac{\sum \text{Daily settlement price}}{\text{Number of days traded in the current calendar month}}$$

2. MASP for an SC active month contract =

$$\frac{\sum [A+B]}{\text{Number of days traded in the current calendar month}}$$

Where,

A=Daily settlement price of the nearest month contract (for the period from the first trading day to the thirteenth-to-last trading day of the nearest month contract in the current month)

B=Daily settlement price of the next-nearest month contract (for the period from the twelfth-to-last trading day of the nearest month contract to the last trading day of the next-nearest month contract in the current month)

(ii) Contract months covered

Contracts with delivery months covering the first to the sixth calendar months after the current calendar month. For example, in March 2022, INE will release the MASP of SC2204, SC2205, SC2206, SC2207, SC2208, and SC2209 for the month of March.

(iii) Calculation period

MASP is calculated from the first trading day of the current calendar month to the last trading day of the current calendar month.

II. Examples of MASP for Active Month Contracts

Example 1: The last trading day of the nearest month contract and of the next-nearest contract fall on the same day



Settlement Prices of SC2112 and SC2201 in November 2021

Trading Days	Date	Settlement price of SC2112 (nearest month contract)	Settlement price of SC2201 (next-nearest month contract)
1	2021/11/1	521	519.6
2	2021/11/2	531.3	530.1
3	2021/11/3	526.8	523.9
4	2021/11/4	513.6	511.5
5	2021/11/5	516	512.8
6	2021/11/8	522.2	517.7
7	2021/11/9	526.3	521.5
8	2021/11/10	530.7	527.7
9	2021/11/11	526.7	522.1
10	2021/11/12	517.7	514.3
11	2021/11/15	513.3	509
12	2021/11/16	510.8	508.5
13	2021/11/17	514.8	511.8
14	2021/11/18	511.8	500.1
15	2021/11/19	513.5	499.9
16	2021/11/22	500.1	489.4
17	2021/11/23	504.5	491.2
18	2021/11/24	518.9	506.7
19	2021/11/25	524.9	511.4
20	2021/11/26	498.6	504.5
21	2021/11/29	491.1	474.5
22	2021/11/30	457.2	465.9

In November 2021, SC2112 and SC2201 were respectively the nearest month contract and the next-nearest month contract on crude oil futures. For both SC2112 and SC2201, their last trading day in November was November 30, and both saw 22 days of trading.

Therefore, the MASP of the SC active month contract for November is the quotient of the sum of two components divided by the number of trading days in the month (22), where the first component is the sum of the settlement prices of SC2112 for the period from the first trading day to the thirteenth-to-last trading day of SC2112 (i.e., November 12), and the second component is the sum of the settlement prices of SC2201 for the period from the twelfth-to-last trading day of SC2112 to the last trading day of SC2201. In formula:

$$\begin{aligned}
 & \text{MASP of the SC active month contract for November 2021} \\
 &= \frac{\sum [\text{SC2112}(521+531.3+526.8\dots+517.7)+\text{SC2201}(509+508.5+511.8\dots+465.9)]}{22 \text{ days}} \\
 &= \frac{5232.3+5972.9}{22 \text{ days}} \\
 &= 509.3 \text{ yuan/barrel}
 \end{aligned}$$

Example 2: The last trading day of the nearest month contract and of the next-nearest contract fall on different days

In January 2022, SC2202 and SC2203 were respectively the nearest month contract and the next-nearest month contract on the crude oil futures. The last trading day of SC2202 was moved forward to January 21 due to the Chinese New Year, giving 14 trading days for the month of January. The last trading day of SC2203 was January 28, allowing the contract to be traded for 19 days in the month.

Therefore, the settlement prices of SC2202 for the period from January 1 to 5 (the thirteenth-to-last trading day of SC2202) and the settlement prices of SC2203 for the period from January 6 to 28 are used to calculate the MASP of the SC active month contract in January.



Settlement Prices of SC2202 and SC2203 in January 2022

Trading Days	Date	Settlement price of SC2202 (nearest month contract)	Settlement price of SC2203 (next-nearest month contract)
1	2022/1/4	494.1	492
2	2022/1/5	500.9	498.6
3	2022/1/6	504.9	501.8
4	2022/1/7	515.7	514.1
5	2022/1/10	511.6	510
6	2022/1/11	509.1	506
7	2022/1/12	515.1	514.7
8	2022/1/13	525	523.8
9	2022/1/14	533.4	525.1
10	2022/1/17	542.1	530.4
11	2022/1/18	542.3	536.3
12	2022/1/19	545.3	544.7
13	2022/1/20	539.4	546.4
14	2022/1/21	533.7	540
15	2022/1/24		537.5
16	2022/1/25		527.7
17	2022/1/26		531.2
18	2022/1/27		542.5
19	2022/1/28		542.2

MASP of the SC active month contract for January 2022

$$= \frac{\sum [\text{SC2202}(494.1+500.9)+\text{SC2203}(501.8+514.1\dots+542.2)]}{19 \text{ days}}$$

$$= \frac{995+8974.4}{19 \text{ days}}$$

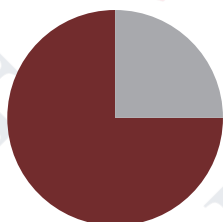
$$= 524.7 \text{ yuan/barrel}$$

Crude Oil Futures Settlement and Margin Rules

Settlement refers to the process in which a Member's trading margin, profit or loss, transaction fee, delivery payment, and other payables and receivables are calculated and credited into or debited from its account based on the trading results and INE rules. The clearing currency at INE is Renminbi: A Member should pay the minimum clearing deposit in RMB with its own funds; all the payments including profit or loss, fees, and delivery payments must be paid in cash in RMB.

Margin requirement

Margin classification



Dedicated margin account

■ Trading margin: The portion of deposited funds already used as margin for the positions held.

■ Clearing deposit: The portion of deposited funds not yet used as margin for the positions held.

INE

Each FF Member is required to maintain a minimum clearing deposit of ¥2,000,000 at all times.

Each Non-FF Member is required to maintain a minimum clearing deposit of ¥500,000 at all times.



Adjustment of the trading margin rate

When the trading margin rate will be adjusted

Over a contract's lifecycle

Consecutive price limit hits

Long public holidays

Other circumstances (see *INE Risk Management Rules*)

The rate of trading margin for a crude oil futures contract varies over the contract's lifecycle. The baseline margin rates are available on the INE website (Data → Settlement Parameters).

	Lifecycle Stage	Trading margin rate
Crude oil	From listing	Baseline margin rate
	From the first trading day of the month before the delivery month	10%
	From the second trading day before the last trading day	20%

Once the limit price is hit, INE may adjust the trading margin requirement for the corresponding SC contract in accordance with its rules. If a contract reaches the limit price on D1, then:

	D1	D2	D3
Margin rate at daily clearing on the current day	+2% (percentage points) on top of the price limit on D2	+2% on top of the price limit on D3	Determined based on INE's risk management plan

Note: If two or more trading margin rates are applicable to a futures contract, the highest one governs. The daily margin rate for each contract can be found on the INE website: Data → Business Data → Trading Parameters.

The INE website only shows the margin rates applicable to Members. The margin rates for clients are determined by their carrying futures firms.

Larger-side margining

INE may collect trading margin on the long positions only or the short positions only, if

- A Client holds both long and short positions in futures contracts of the same product through the same Member or OSBP (except for positions held after the close of the fifth trading day before the last trading day of the relevant contract); in which case, margin is collected from the side for which a larger amount of trading margin is required;
- A Non-FF Member or an OSNBP holds both long and short positions in futures contracts of the same product (except for positions held after the close of the fifth trading day before the last trading day of the relevant contract); in which case, margin is collected from the side for which a larger amount of trading margin is required;
- Other circumstances that larger-side margining is considered necessary by INE.

Note: Please refer to Chapter 2 of the *INE Risk Management Rules* for detailed rules on the margin requirements for crude oil futures and how it is collected.



Assets usable as margin

Subject to INE's approval, Non-FF Members, OSNBPs, and clients may use standard warrants, foreign currencies, Chinese government bonds, and other designated assets as margin collaterals. For any asset other than foreign currencies, the maximum available margin derived from the asset is capped at four times the cash balance of the relevant account.

Standard warrants

- The minimum haircut for standard warrants used as margin is 20% of their market value;
- The market value is calculated based on the current day's settlement price of the front-month futures contract of the underlying product;
- Before market close of the day the standard warrants are posted as margin collateral, their market value is provisionally calculated based on the previous settlement price of the front-month futures contract of the underlying product;
- The application for posting standard warrants as margin should be submitted from 9:00 to 15:00 and from 21:00 to 02:30 (next day); the application for withdrawing them should be submitted between 9:00 and 14:30.

Foreign currencies

- INE currently permits the use of U.S. dollar as margin at a haircut of 5%;
- The market value of foreign currencies is calculated based on the Central Parity Rate for the day published by the China Foreign Exchange Trade System;
- The application for posting foreign currencies as margin should be submitted from 8:00 to 15:00 and from 20:15 to 02:30 (next day); the withdrawal of foreign currencies is processed at clearing and settlement.

Chinese government bonds

INE currently permits the use of book-entry government bonds (i.e., Chinese treasury bonds) issued domestically by the Ministry of Finance of the People's Republic of China as margin.

In each instance where Chinese government bonds are posted as margin, the total face value should not be less than one million yuan (¥1,000,000).

The benchmark price of Chinese government bonds is taken to be the lowest of the valuations provided by depositories. At daily clearing, INE will use the benchmark price (net price) of the Chinese government bonds on the preceding trading day to calculate the market value.

The application for posting Chinese government bonds as margin should be submitted between 9:00 and 14:30; withdrawal request is processed from 9:00 to 14:30.

Note: Detailed rules regarding margin collaterals can be found in Chapter 6 of the *INE Clearing Rules*.

Account and Margin Management

Account segregation

INE maintains an internal ledger for each Member to record and settle the Member's deposits and withdrawals, profits and losses, trading margins, premiums, transaction fees, etc. on a daily basis.

Similarly, FF Members, OSBPs, and Overseas Intermediaries are each required to maintain an internal ledger for each of their clients to record and settle their payables and receivables on a daily basis.

Futures-related funds transfers between an FF Member and its clients must only be carried out between the FF Member's dedicated margin account and the clients' futures settlement accounts.



Designated Depository Banks

In view of the prudential principles, INE has designated qualified banks to keep the custody of futures margin funds. These Designated Depository Banks are required to do so in compliance with laws, regulations, ministry-level rules, and rules of INE and accept the supervision of INE.

As of December 2023, INE has designated 12 domestic banks and 10 overseas banks as Depository Banks.

No.	Depository Bank	Permitted Customers		
		Domestic (incl. QFIs)	Overseas	Client-QFIs only
1	ICBC	✓	✓	
2	Agricultural Bank of China	✓	✓	
3	Bank of China	✓	✓	
4	China Construction Bank	✓	✓	
5	Bank of Communications	✓	✓	
6	China Merchants Bank	✓	✓	
7	China CITIC Bank	✓	✓	
8	Shanghai Pudong Development Bank	✓	✓	
9	Industrial Bank	✓	–	
10	China Everbright Bank	✓	✓	
11	China Minsheng Bank	✓	–	
12	Ping An Bank	✓	–	
13	DBS Bank (China)	–	✓	✓
14	CitiBank (China)	–	–	✓

Note: 1. According to the INE Designated Depository Banks Management Rules, futures margin depository services at the INE are classified into services for domestic clients and services for overseas clients. The former refers to depository services for INE members and domestic (i.e., Chinese Mainland) clients; the latter refers to services for OSPs, Overseas Intermediaries, and overseas clients.

2. Any futures firm that opens a USD margin account at a Designated Depository Bank for overseas clients must also open a corresponding RMB margin account at the same branch of that bank.

3. The latest list of Designated Depository Banks is available on the INE website: Services → Settlement → Depository Bank.

Funds Deposit and Withdrawal

■ Deposit

Members may submit funds deposit requests at any time during the day.

The system automatically reviews deposit requests from 08:00 to 15:00 and from 20:15 to 02:30 (next day) on a trading day.

■ Withdrawal

Members may submit funds withdrawal requests at any time during the day.

Requests submitted before 15:00 will be reviewed by INE on the current day during daily clearing.

Requests submitted after 15:00 will be reviewed by INE at time of clearing on the next day.



Daily Clearing

INE implements daily mark-to-market, i.e., after the close of each trading day, INE will settle the profit or loss, trading margin, transaction fees, taxes, and other fees for each Member based on the settlement price of each contract, and transfer the net amount of the Member's payables and receivables by crediting or debiting the Member's clearing deposit accordingly.

INE performs clearing for Members. Each Member performs clearing for its clients, the OSPs that have asked the Member to clear on their behalf, and the Overseas Intermediaries that have asked the Member to trade and clear on their behalf.

Daily Clearing Process

INE determines the trading margin rate for each contract for the day based on the daily market conditions or applicable rules

INE performs clearing at end of day

Meeting margin calls (if needed)

Depositing additional RMB cash (if needed)

INE performs a second round of clearing and settlement (if margin call or deposit of additional RMB cash is involved)

End of clearing and settlement. INE sends settlement results to Members

Members perform clearing for their clients, OSPs, and Overseas Intermediaries

OSP and Overseas Intermediaries perform clearing for their clients

Clearing Risk Control

■ Margin call

Upon completion of daily clearing, the clearing result will serve as a margin call to any Member whose clearing deposit balance on any ledger at INE is lower than the minimum required, in which case INE will deduct the required amount from the Member's dedicated fund account. If a shortfall still exists, the Member should eliminate it before market open of the next trading day, or will be penalized by such measures as restriction on opening new positions and forced liquidation.

Member's clearing deposit balance < minimum clearing deposit requirement

Member deposits additional RMB margin

(If gap still exists) Member deposits additional foreign-currency margin

(If gap still exists) INE notifies the Member to meet the minimum requirement before market open of the next trading day

- If the minimum requirement is not met on time:
- (i) if clearing deposit balance < minimum requirement, INE will restrict the Member from opening new positions;
 - (ii) if clearing deposit balance < 0, INE will perform forced liquidation

Note: Detailed rules regarding margin call can be found in Chapter 3 of the *INE Clearing Rules* and Chapter 6 of the *INE Risk Management Rules*.



■ RMB margin call

If, after the completion of daily clearing, the RMB (which is the settlement currency) clearing deposit balance of a Member on any ledger at INE is lower than the minimum required, INE will issue a call for additional RMB margin funds. If the requirement is not met on time, INE may unilaterally exchange foreign-currency margin into RMB margin.

RMB cash balance < minimum clearing deposit requirement

Member deposits additional RMB cash

(If gap still exists) INE notifies the Member to meet the minimum requirement before market open of the next trading day

If the minimum requirement on RMB cash balance is not met on time, INE may carry out forced currency exchange

■ Risk reserve

INE establishes a risk reserve to ensure smooth operations of the futures market, provide financial security, and cover any potential losses from unforeseeable risks.

Sources of funding for the risk reserve include:

- (1) funds provisioned from and at 20% of the transaction fees INE collects, accounted as administrative expenses;
- (2) other sources in compliance with the fiscal policies of China.

The use of the risk reserve is subject to the approval of the INE board of directors, and, following notification to the CSRC, carried out in accordance with the prescribed purposes and procedures.

Abnormal Trading and Account Relationship Filing

Large Trader Position Reporting

INE institutes large trader position reporting. A Member, OSP, or client whose general position in a futures contract reaches the general position limit set by the INE, or an Overseas Intermediary whose general position in a futures contract reaches or exceeds 60% of its general position limit, is required to file a report with INE on the following trading day. INE may adjust the reportable threshold based on market risks.

Members, OSPs, Overseas Intermediaries, and clients should ensure that the large trader position reports and other related documents they submit are truthful, accurate, and complete.

Actual Control Relationship

“Actual control” refers to the action or ability of any person (whether an individual or institution) to control or to significantly influence the trading decisions of another person (whether an individual or institution) by virtue of its powers including the power to manage, use, receive incomes from, or dispose of the futures account of the latter person. By the principle of “substance over form,” a person is treated as having actual control over the futures account of another person during futures trading if any condition listed under Article 5 of the *INE Administration of Accounts Involving Actual Control Relationship Rules* is met.

(1) Clients with accounts involving actual control relationship as defined by the identification criteria should complete account filing within 10 trading days after signing the futures brokerage contract.

(2) INE may impose supervisory measures against clients who fail to make filing truthfully. In serious circumstances, INE will take further actions in accordance with the *INE Enforcement Rules*.



Abnormal Trading Behavior

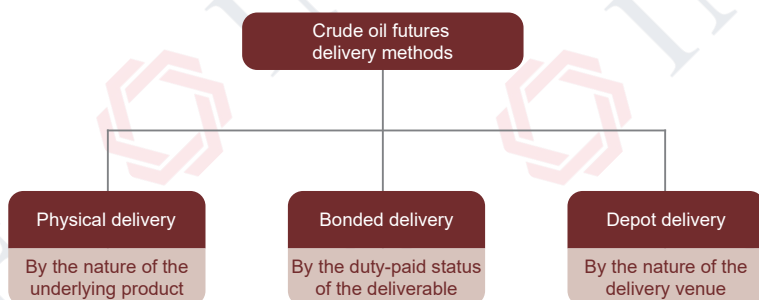
Abnormal trading behavior includes self-trades, frequent order cancellation, large-amount order cancellation, exceedance of the daily position-opening limit, disruptive program trading, and other situations identified by the CSRC or INE.

Activities such as self-trade, frequent order cancellations, and large-amount order cancellation resulting from such transactions as hedging trades, FOK orders and FAK orders are not treated as abnormal trading behaviors.

Similarly, frequent order cancellations resulting from market making activities are not treated as abnormal trading behaviors.

CRUDE OIL FUTURES DELIVERY GUIDE

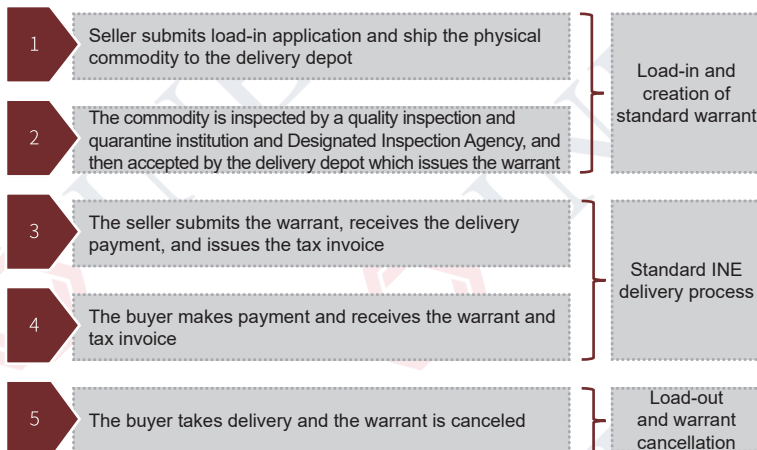
Delivery is a way that a buyer and a seller settle their open positions in a futures contract by either transferring the ownership the underlying commodity or completing a cash settlement at the prescribed settlement price in accordance with the rules and procedures of INE.





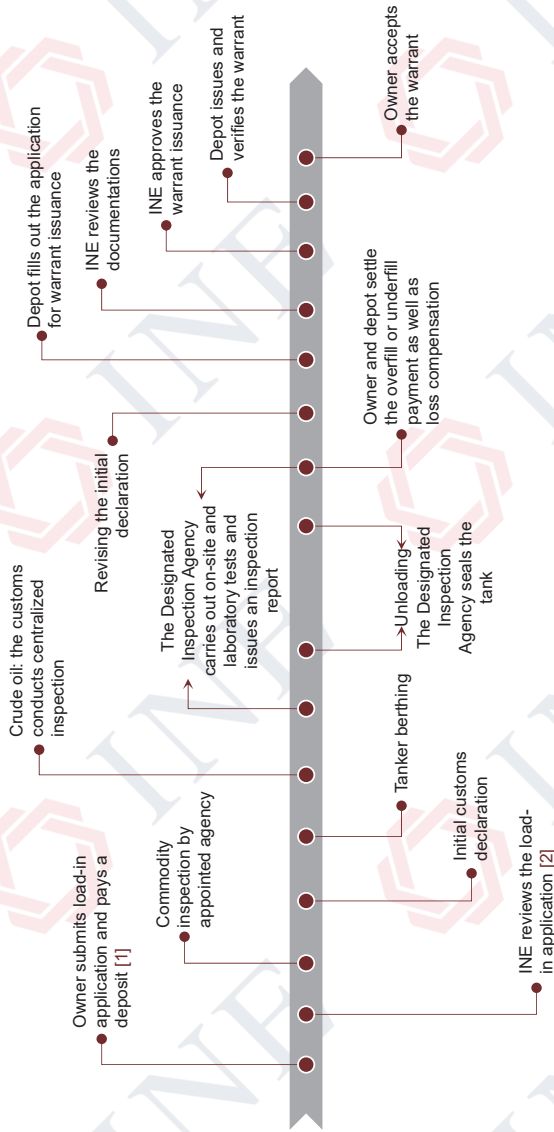
Basic Delivery Procedures

Basic procedures for delivery against crude oil futures



Standard Warrant Creation Process

Crude Oil Directly Delivered to China from A Foreign Origin

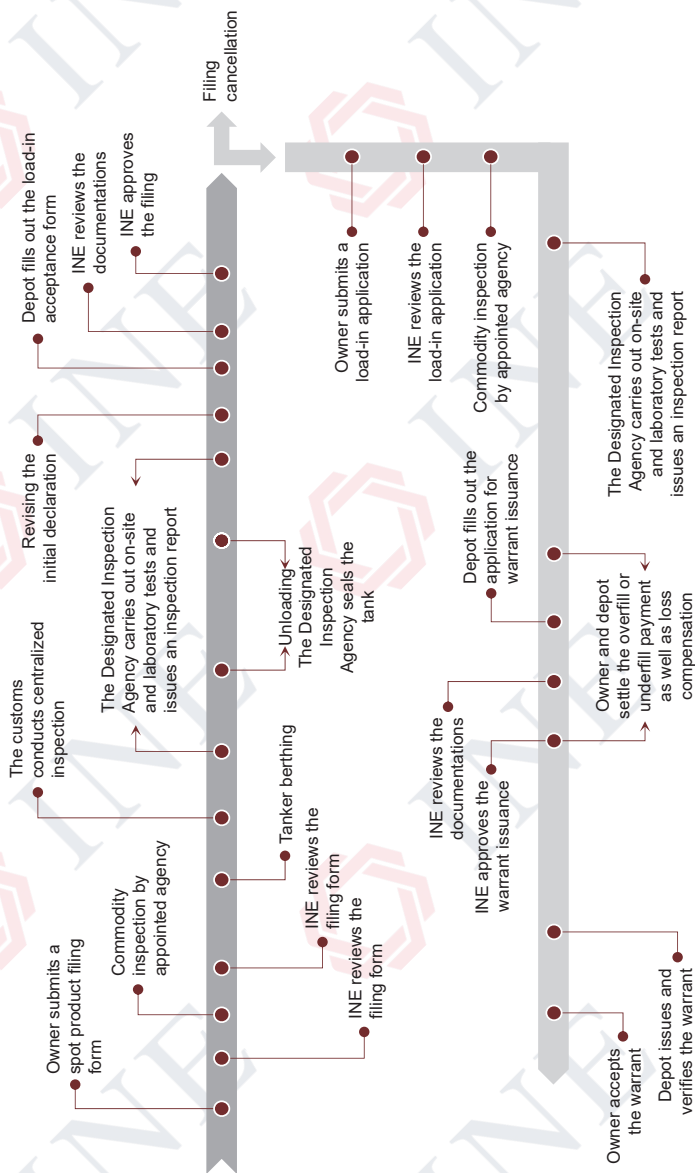


Notes:

1. The information in the load-in application must be accurate.
2. Designated delivery depots may print out a *Load-in Approval/Notification*.



Conversion of Spot Product on File into Standard Warrant



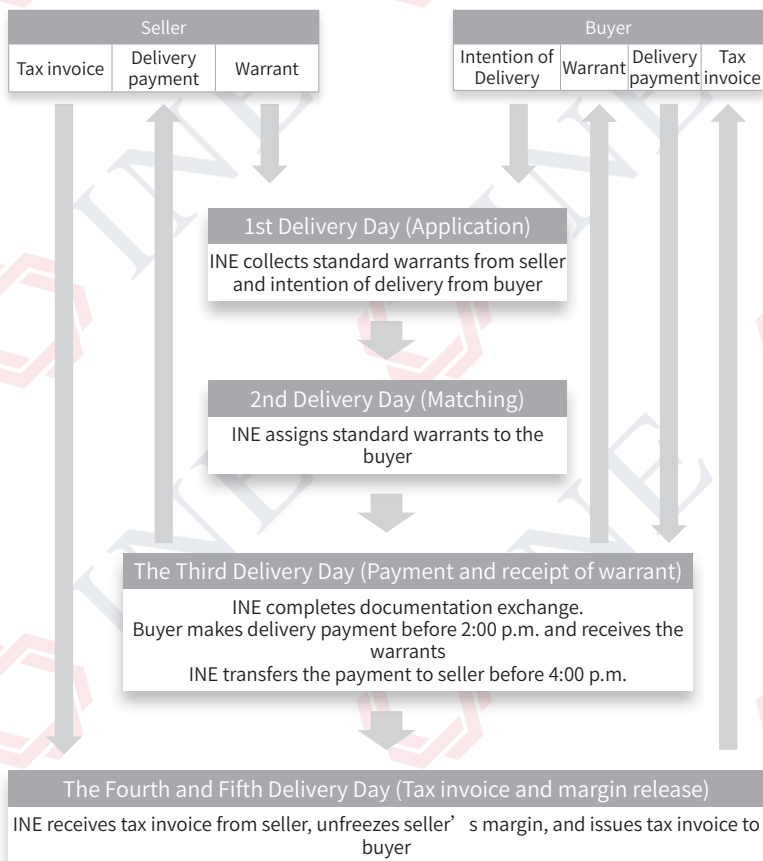
Documentations Required for the Creation of Standard Warrants

- 1 --- • Certificate of Origin
- 2 --- • Bill of lading
- 3 --- • Certificate of inspection at the port of loading
- 4 --- • Load-in approval
- 5 --- • Customs declaration for imported goods
- 6 --- • Inspection and Quarantine Certificate for Entry Goods (Crude oil)
- 7 --- • Inspection Certificate issued by a Designated Inspection Agency
- 8 --- • Other materials: Based on the transaction in question



Warrant Usage and Cancellation

Standard Delivery Procedures



Warrant Transfer Procedures and Requirements

Standard Warrant Transfers Settled by INE

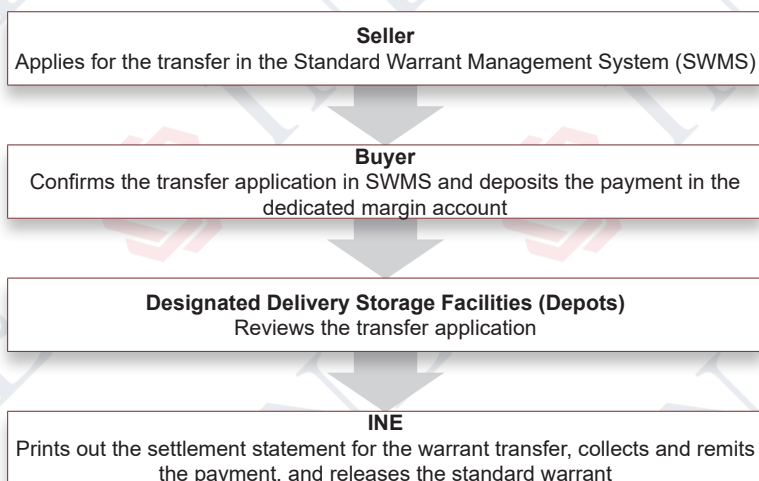
1. Enterprises qualified to import or export crude oil and overseas enterprises may transfer bonded standard warrants for crude oil.

2. Other enterprises should engage in warrant transfers as follows:

(1) For a purchase transaction, the purchased bonded standard warrant can be used for delivery at contract expiration, sold through EFP, or used for load-out and direct customs declaration, but may not be sold in another warrant transfer transaction.

(2) For a sales transaction, the sold bonded standard warrant should be obtained from delivery at contract expiration or an EFP transaction, or created as a result of load-in, but may not be obtained through the transfer of a purchased bonded standard warrant.

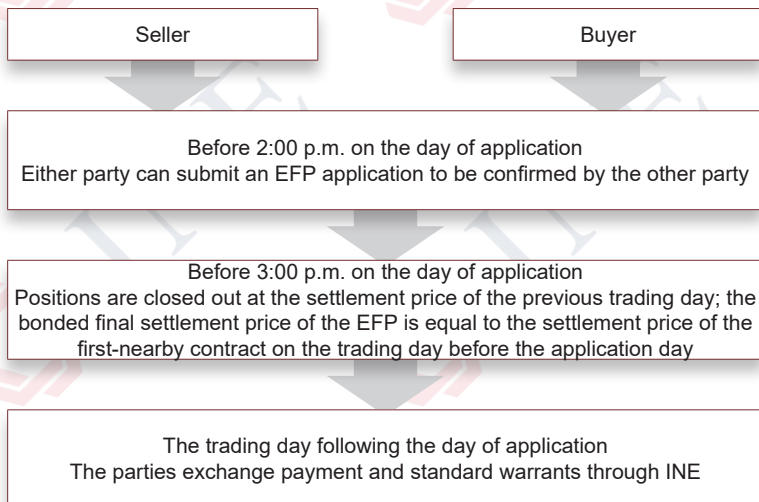
■ If the application for transferring standard warrants is submitted before 2:00 p.m., INE will complete the transfer on the same day. For applications submitted after 2:00 p.m., INE will complete the transfer on the following trading day.





Exchange of Futures for Physical (EFP)

INE Settlement of EFP with Standard Warrants



Non-INE Settlement of EFP with Non-Standard Warrants

1.If both the buyer and seller are domestic entities and the deliverable is crude oil declared for import by the seller, then the payment should be made in renminbi;

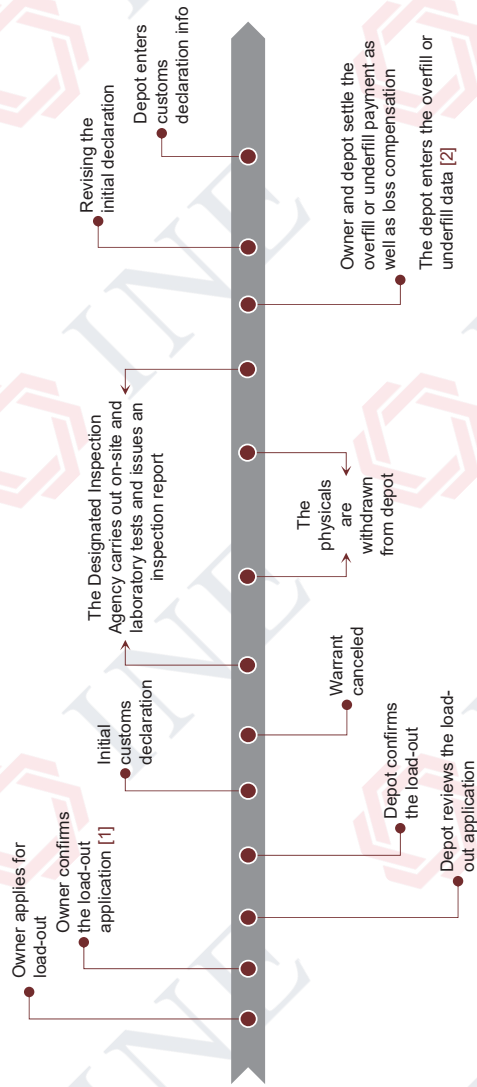
2.If the buyer is a domestic entity and the seller is an overseas entity and the deliverable is crude oil declared for import by the buyer, then the payment can be made in either renminbi or a foreign currency.

■ EFP is only applicable to positions in INE-listed futures contracts opened before the date of the EFP application, not to the positions established on that day.

■ Application period: From the listing date of the futures contract concerned till the second trading day (inclusive) before the last trading day.

Cancellation of Warrants

Take-delivery can be conducted once the warrants are canceled.



Notes:

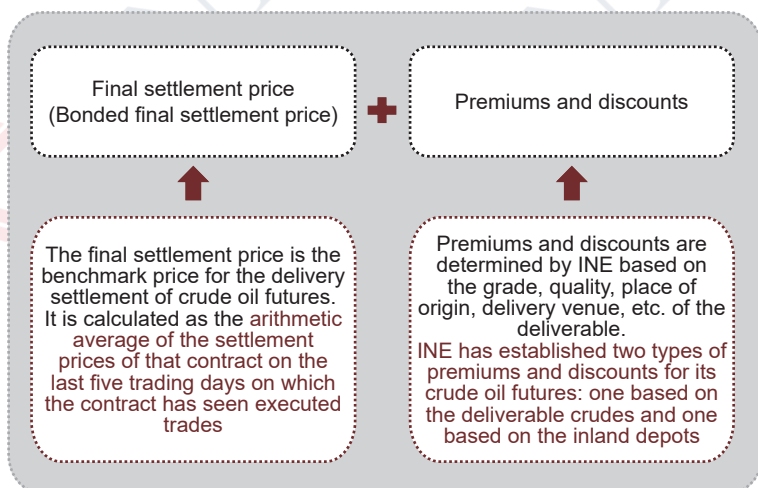
- 1.A Designated Delivery Storage Facility (depot) may print out the *Bonded Standard Warrant List and the Bonded Delivery Settlement Statement (For Customs Declaration-1)* and, in the case of an import declaration, the *Crude Oil (Futures) Inspection and Quarantine Application Form*.
- 2.A Designated Delivery Storage Facility (depot) may print out the *Bonded Delivery Settlement Statement (For Customs Declaration-2)* and, in the case of an import declaration, the *Crude Oil (Futures) Deregistration Application Form*.



Delivery-Related Fees

Delivery Payment for Expired Contract

Once an expired contract enters the delivery phase, the buyers and the sellers will settle the delivery payment at the contract's final settlement price plus or minus the premium/discount for the deliverable.



➔ Delivery payment for expired contract = (bonded final settlement price + premiums and discounts of the deliverable crude) × delivery quantity

Other Fees

Delivery fees	0 (temporarily exempted)
Storage fees	RMB 0.2 / barrel • day (Effective from January 1, 2022) Collected by the Designated Delivery Storage Facilities from the owner or its agent Subject to adjustment in light of market needs
Inspection fees	Collected by the Designated Inspection Agency at the prevailing rate from the owner as at the time of load-in/load-out or from its agent
Other fees	Port charges, port construction fees, terminal handling charges, etc. Collected by relevant organizations at the prevailing rate from the owner as at the time of load-in/load-out or from its agent

Note: More Details are available on INE website: Circular



Disclosure of Delivery Information

Daily Warrants Information

Region	Depot	On Warrant	Change
Medium Sour Crude Oil		Unit: Barrel	
Zhejiang	SPRC Cezidao	0	0
	Sinochem-Xingzhong	0	0
	Dading Petroleum	0	0
	Subtotal	0	0
Shandong	SPRC Rizhao	0	0
	SPG Qingdao Port Shihua	0	0
	Hongrun Oil Storage	1027000	0
	SPG Ocean Dongjiakou	0	0
	SPG Rizhao Petroleum	0	0
	SPG Huagang	0	0
	Subtotal	1027000	0
Guangdong	PetroChina Zhanjiang	0	0
	SPRC Zhanjiang	0	0
	Subtotal	0	0
Liaoning	PetroChina Dalian Bonded	1182000	0
	PetroChina Dalian Intl	263000	0
	North Petroleum	0	0
	Subtotal	1445000	0
Hainan	SPRC Hainan	0	0
	SOGTY	0	0
	Subtotal	0	0
Hebei	SPRC Caofeidian	0	0
Guangxi	PetroChina Guangxi Intl	992000	0
Total		3464000	0

Note: More details are available on the INE website: Data → Statistical Data → Daily Data → Daily Warrant

Weekly Inventory

Region	Depot	Crude	Storage of last week	Storage of this week	Storage Change	Theoretical Available Capacity		
						Last week	This Week	Change
Medium Sour Crude Oil								
						Unit:	Barrel	
Zhejiang	SPRC Caidao	Basra Medium	0	0	0	---	---	---
	SPRC Caidao	Oman	0	0	0	---	---	---
	SPRC Caidao	Basra Light (level I)	0	0	0	---	---	---
	SPRC Caidao	Subtotal	0	0	0	3500000	3500000	0
	Sinochem-Xingzhong	Upper Zakum	0	0	0	---	---	---
	Sinochem-Xingzhong	Basra Light (level I)	0	0	0	---	---	---
	Sinochem-Xingzhong	Subtotal	0	0	0	2101000	2101000	0
	Dading Petroleum		0	0	0	---	---	---
	Dading Petroleum	Subtotal	0	0	0	1300000	1300000	0
		Subtotal	0	0	0	4901000	4901000	0
	SPRC Richao	Upper Zakum	0	0	0	---	---	---
	SPRC Richao	Oman	0	0	0	---	---	---
	SPRC Richao	Basra Light (level I)	0	0	0	---	---	---
	SPRC Richao	Subtotal	0	0	0	5200000	5200000	0
Shandong	SPG Qingdao Port Shihua	Tuzi	0	0	0	---	---	---
	SPG Qingdao Port Shihua	Oman	0	0	0	---	---	---
	SPG Qingdao Port Shihua	Subtotal	0	0	0	2392000	2392000	0
	Hongrun Oil Storage	Upper Zakum	0	0	0	---	---	---
	Hongrun Oil Storage	Oman	0	0	0	---	---	---
	Hongrun Oil Storage	Basra Light (level I)	1027000	1027000	0	---	---	---
	Hongrun Oil Storage	Subtotal	1027000	1027000	0	16973000	16973000	0
	SPG Ocean Dongjiakou	Basra Medium	0	0	0	---	---	---
	SPG Ocean Dongjiakou	Upper Zakum	0	0	0	---	---	---
	SPG Ocean Dongjiakou	Oman	0	0	0	---	---	---
	SPG Ocean Dongjiakou	Subtotal	0	0	0	2392000	2392000	0
	SPG Richao Petroleum		0	0	0	---	---	---
	SPG Richao Petroleum	Subtotal	0	0	0	2314000	2314000	0
	SPG Huangang	Murban	0	0	0	---	---	---
SPG Huangang	Subtotal	0	0	0	4717000	4717000	0	
	Subtotal		1027000	1027000	0	33980000	33980000	0
Guangdong	PetroChina Zhanjiang	Oman	0	0	0	---	---	---
	PetroChina Zhanjiang	Qatar Marine	0	0	0	---	---	---
	PetroChina Zhanjiang	Basra Light (level I)	0	0	0	---	---	---
	PetroChina Zhanjiang	Subtotal	0	0	0	3110000	3110000	0
	SPRC Zhanjiang	Basra Medium	0	0	0	---	---	---
	SPRC Zhanjiang	Upper Zakum	0	0	0	---	---	---
	SPRC Zhanjiang	Oman	0	0	0	---	---	---
	SPRC Zhanjiang	Qatar Marine	0	0	0	---	---	---
	SPRC Zhanjiang	Basra Light (level I)	0	0	0	---	---	---
	SPRC Zhanjiang	Subtotal	0	0	0	3774000	3774000	0
	Subtotal		0	0	0	4884000	4884000	0

Note: More details are available on the INE website: Data → Statistical Data → Weekly Data → Weekly Inventory



STANDARD CONTRACT

Contract Specifications

Product	Medium Sour Crude Oil
Contract Size	1,000 barrels per lot
Price Quotation	(RMB) Yuan per barrel (no tax or duty included in the quotation)
Minimum Price Fluctuation	0.1 Yuan / barrel
Daily Price Limits	±4% from the settlement price of the previous trading day
Listed Contracts	Monthly contracts of recent twelve (12) consecutive months followed by eight (8) quarterly contracts.
Trading Hours	9:00-11:30 a.m., 1:30-3:00 p.m. (Beijing Time), and other trading hours as prescribed by the Exchange
Last Trading Day	The last trading day of the month prior to the delivery month; The Shanghai International Energy Exchange is entitled to adjust the last trading day in accordance with the national holidays.
Delivery Period	Five (5) consecutive trading days after the last trading day.
Grades and Quality Specifications	Medium sour crude oil with the quality specifications of API 32.0 degrees and sulfur content 1.5% by weight. The deliverable grades and the price differentials will be stipulated separately by the Shanghai International Energy Exchange.
Delivery Venues	Delivery Storage Facilities designated by the Shanghai International Energy Exchange
Minimum Trading Margin	5% of contract value
Settlement Type	Physical delivery
Product Symbol	SC
Listing Exchange	Shanghai International Energy Exchange

Note: The product symbol "SC" is short for SHANGHAI CRUDE or SOUR CRUDE.

Contract Appendixes

Delivery Unit

The delivery unit of standard crude oil futures contract is 1,000 barrels. The delivery quantity shall be integer multiple(s) of the delivery unit.

Last Trading Day

The Last Trading Day of a crude oil futures contract shall be the last trading day of the month prior to the delivery month. The Shanghai International Energy Exchange (the "Exchange") reserves the rights to adjust the Last Trading Day in accordance with the national holidays so as to protect the legitimate rights of all parties involved in the futures trading and the social public interests, and to mitigate market risks. For example, if a national holiday of more than three consecutive days falls between the second last trading day, the last trading day, and one of the days in the delivery period of the contract, the Exchange may decide either to advance or to postpone the Last Trading Day and shall announce in advance.

Grades and Quality Specifications

Medium sour crude oil, of which the quality specifications are as follows: the API gravity is 32.0 degrees and sulfur content is 1.5% by weight. The deliverable grades and the premiums and discounts will be stipulated separately by the Exchange. The Exchange may adjust the deliverable grades and the premiums and discounts based on the market conditions.

The "crude oil" in this contract refers to the liquid hydrocarbons exploited directly from underground natural reservoir, or a mixture of its natural forms.

Designated Delivery Storage Facilities

Designated Delivery Storage Facilities will be designated and separately announced by the Exchange.



Deliverable Crude Streams, Grades, and Premiums/Discounts

In accordance with the *INE Crude Oil Futures Contract Specifications* and the *INE Delivery Rules*, INE has set the deliverable crude streams, grades, and premiums/discounts for the crude oil futures contract as follows:

Deliverable Crude Streams, Grades, and Premiums/Discounts for Crude Oil Futures				
Nation	Deliverable Crudes	API Gravity	Sulfur (%)	Price Differential (Yuan / Barrel)
United Arab Emirates	Dubai	≥30	≤2.8	0
	Upper Zakum	≥33	≤2.0	0
	Murban	≥35	≤1.5	5
Sultanate of Oman	Oman	≥30	≤1.6	0
State of Qatar	Qatar Marine	≥31	≤2.2	0
Republic of Iraq	Basrah Light	≥29	≤3.5	-5
	Basrah Medium	≥26	≤4.0	-10
Brazil	Tupi	≥28	≤0.8	10
	Búzios	≥28	≤0.4	10
Republic of the Congo	Djeno	≥28	≤0.5	0
People's Republic of China	Shengli	≥24	≤1.0	-5

Note:

1.API gravity = $(141.5 / \text{SG (at } 60^\circ \text{F)}) - 131.5$; where specific gravity (SG) is determined according to ASTM D1298.

2.Sulfur content is determined according to ASTM D4294.

3.Basra Light with $28 \leq \text{API} < 29$ that is already stored in designated delivery storage facilities can still be used for physical delivery.

INE will closely monitor market developments for each deliverable crude stream and make timely adjustments to the deliverable crude streams, grades, and/or premiums/discounts accordingly.

Origins for Crude Futures Deliverable Grade

1. Dubai, UAE: Fateh Terminal;
2. Upper Zakum, UAE: Zirku Island;
3. Murban, UAE: Fujairah Terminal or Jebel Dhanna Terminal
4. Oman, The Sultanate of Oman: Mina Al Fahal;
5. Qatar Marine, Qatar: Halul Island;
6. Basrah Light, Iraq: Basrah Oil Terminal or SPM;
7. Basrah Medium, Iraq: Basrah Oil Terminal or SPM;
8. Tupi, Brazil: Angra Dos Reis, Port Acu, STS Santos, STS Sao Paulo, Sao Sebastian, and FPSO of Brazil, La Paloma of Uruguay, and other loading ports recognized by INE;
9. Búzios, Brazil: São Sebastião, Brazil; Angra dos Reis, Brazil; Porto do Açu, Brazil; STS Santos, Brazil; La Paloma, Uruguay; and other loading ports recognized by INE;
10. Djeno, Congo: Djeno Terminal, Republic of the Congo;
11. Shengli, PRC: Dongying Oil Terminal of Sinopec Shengli Oilfield Company.

INE may adjust the places of origin (loading ports) based on market conditions. These adjustments will be separately announced.



APPENDIX

Designated Delivery Storage Facilities and Designated Inspection Agencies for Crude Oil Futures Contract

Contact Information for Designated Delivery Storage Facilities

No.	Storage Facility	Storage Location	Approved Capacity (10,000 m ³)	Active Capacity		Working Volume 10,000 bbl	Contact	Telephone
				Nominal Volume 10,000 m ³	10,000 m ³			
1	Sinopec Petroleum Reserve Co., Ltd.	16A Caofeidian Industrial Zone, Tangshan, Hebei	100	40	251.6	200	Han Xinghui, Wang Mei	13273558221 13273558162 022-66335560
		Lanshan North Port Area, Rizhao, Shandong	120	100	629	520	Guo Zhenjiang, Li Qiang	0633-7898124 13969783305 0633-7898124 18763360651
		Cezi Island, Zhoushan, Zhejiang	80	70	440.3	350	Li Junjian, Jin Zhiyang	0580-8772701 17606810701 0580-8772719 18758819669
		Xingang Avenue South, Lingang Industrial Zone, Zhanjiang, Guangdong	90	60	377.4	300	Yang Yong, Zhang Lingyu	0759-3483018 17676504777 0759-3483377 18933767657
		83 Binhai Avenue, Yangpu Economic Development Zone, Hainan	100	60	377.4	300	Zhang Zhibin, Zhao Longdan	0898-36998965 18117766005 0898-36998964 18117759065
2	PetroChina Fuel Oil Co., Ltd.	Operating Area 2, 1 Youyi Road, Xiashan District, Zhanjiang, Guangdong	70	50	314.5	311	Shi Jinming, Chen Shaomin	0759-2658098 15889832944 0759-2658113 13729034884
3	Sinochem-Xingzhong Oil Staging (Zhoushan) Co., Ltd.	Aoshan Island, Lincheng, Dinghai District, Zhoushan, Zhejiang	100	35	220.15	210.1	Xiao Bin, Sun Chengchao	0580-2061786 13906807550 0580-2061858 18158599850

No.	Storage Facility	Storage Location	Approved Capacity (10,000 m³)	Active Capacity			Contact	Telephone
				Nominal Volume 10,000 m³	10,000 bbl	Working Volume 10,000 bbl		
4	Dalian PetroChina International Warehousing & Transportation Co., Ltd.	Dalian PetroChina Bonded Depot, New Port, Dalian Bonded Zone, Dalian, Liaoning	145	145	912.05	829.5	Sun Junsheng, Dong Shuxu	0411-82353799 13704112785
		Dalian PetroChina International Reserve Depot, New Port, Dalian Bonded Zone, Dalian, Liaoning	180	180	1132.2	1080		0411-82353712 18740267776
		Guangxi PetroChina International Reserve Depot, Qinzhou Bonded Area, Guangxi	20	20	125.8	120	Sun Junsheng, Dong Shuxu	0411-82353799 13704112785 0411-82353712 18740267776
5	Shandong Port Group Co., Ltd.	Dongjiakou Depot Phase I, Qingdao, Shandong	40	40	251.6	239.2	Sun Qimeng, Zhang Guangcong	0532-82988359 15898858932
		88 Gangrun Avenue, Dong Jiakou Port, Huangdao District, Qingdao, Shandong	100	40	251.6	239.2		0532-82988371 15165256027
6	Dalian North Oil Petroleum Logistics Co., Ltd.	Sha Tuozi, New Port, Dalian Bonded Zone, Dalian, Liaoning	40	20	125.8	108	Yin Kaibin, Liu Bin	0411-87596755 15942481754 0411-87596756 13654985370
7	Hongrun Oil Storage & Transportation (Weifang) Co., Ltd.	North side of Bohai Street, West side of Haifeng Road, Advanced Manufacturing Park, Binhai Economic Development Zone, Weifang, Shandong	500	300	1887	1800	Li Hongdou, Zhao Runyang	0536-2095126 15953653138 0536-2095123 15105366139
8	Dading Petroleum Logistics Co., Ltd.	496 Aoshan East Road, Lincheng Sub-District, Dinghai District, Zhoushan, Zhejiang	44	22	138.38	130	Jin Wencheng, Wang Jintao	0580-8171134 15943921722 0580-8171131 13506601356
9	SDIC Oil & Gas Terminal Yangpu Co., Ltd.	North side of Yuanyi Road, Chemical Industry Park, Yangpu Economic Development Zone, Hainan	40	20	125.8	124.5	Guo Jian, Yang Guang	0898-36980250 18689915968 17521231940

Notes:

- 1.The nominal volume in the active capacity uses the following conversion formula: 1 cubic meter = approx. 6.29 bbl.
- 2.Hongrun Oil Storage & Transportation (Weifang) Co., Ltd. has a premium of 3 yuan/bbl.
- 3.Storage fee is 0.2 yuan/bbl/day.



Contact Information for Group Delivery Facilities							
Group	Type	Name	Location	Approved Capacity			Telephone
				10,000 m ³	Nominal Volume 10,000 m ³	Working Volume 10,000 bbl	
Shandong Port Group Co., Ltd.	Group delivery warehouse	Rizhao Port Oil Terminal Co., Ltd.	Phase III Oil Depot of Rizhao Port Oil Terminal Co., Ltd., Lanshan Port District, Rizhao Port, Rizhao, Shandong	40	40	251.6	13963039123 0633-7385988 13963310255 0633-7385998
	Group delivery warehouse	Qingdao Huagang Petroleum Storage Co., Ltd.	South of Weishisan Road and east of Jingshi Road, Dongjiakou Port District, Huangdao District, Qingdao, Shandong	80	80	503.2	1589858932 Sun Qiming, Zhang Guangcong 0532-82988359 15165256027 0532-82988371

Notes:

1. The nominal volume in the active capacity uses the following conversion formula: 1 cubic meter = approx. 6.29 bbl.

2. Storage fee is 0.2 yuan/bbl/day.

3. Website: <https://www.shfe.com.cn/english/market/futures/energy/sc/deliverydeposits/>

Contract Information for Designated Inspection Agencies					
No.	Name	Office Location	Contact	Telephone	Fax
1	China Certification & Inspection Group Inspection Co., Ltd.	17/F, Sanyuan Building, 18 Xibahe Dongli, Chaoyang District, Beijing	Yao Jin Mao Xiangyu	010-84603658 13801063685 010-84603548 13810060886	010-84603183
2	SGS-CSTC Standards Technical Services Co., Ltd.	16/F, Century Yuhui Mansion, 73 Fucheng Road, Haidian District, Beijing	Chen Zhou Zhao Qi	0574-89070154 13306678519 0755-26392411 13821643138	0574-87777875
3	Intertek Testing Services Shanghai, Co., Ltd.	Building T52-3-2 North, 1201 Guizhao Road, Jinqiao Development Area, Pudong New Area, Shanghai	Guan Lianjun Zhang Jian	0574-87836578 13306668721 0532-58715778 13869863179	0574-87840759
4	Technical Center for Industrial Product and Raw Material Inspection and Testing of SHCIQ	1208 Minsheng Road, Pudong New Area, Shanghai	Zhang Jidong Li Chen	021-67120903 13918256560 021-38620750 13331978879	021-67120902

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<https://www.ine.cn/eng/market/futures/energy/sc/manual/>



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