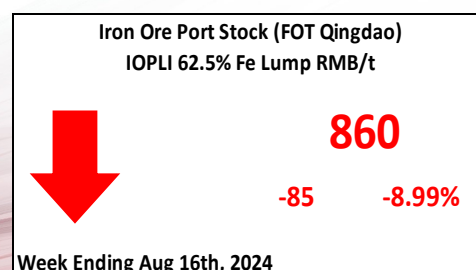
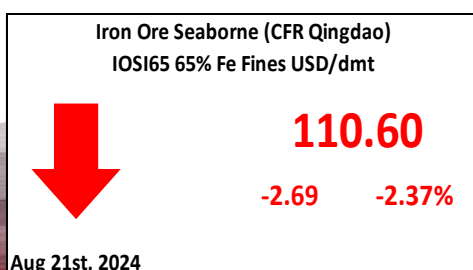
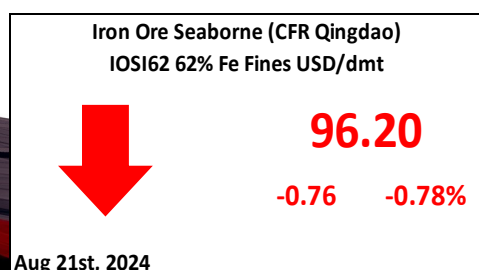
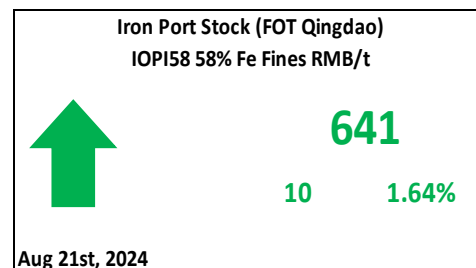
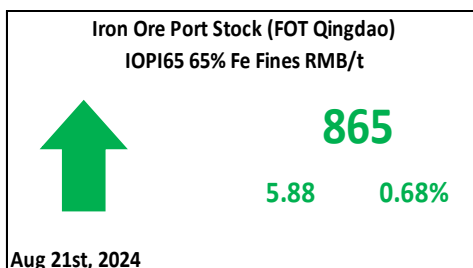
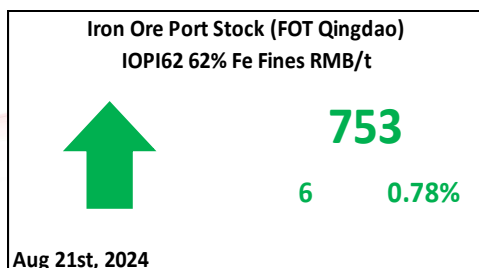


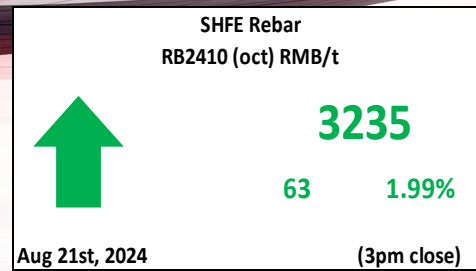
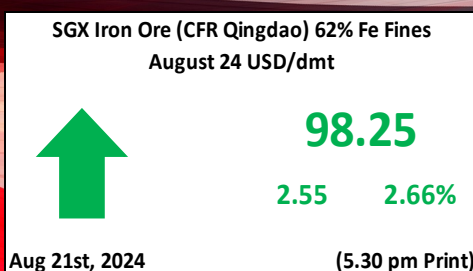
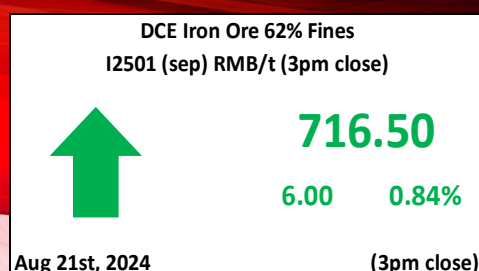


MMi Dashboard

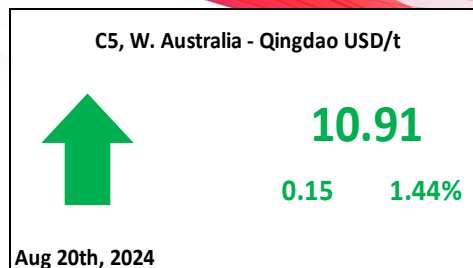
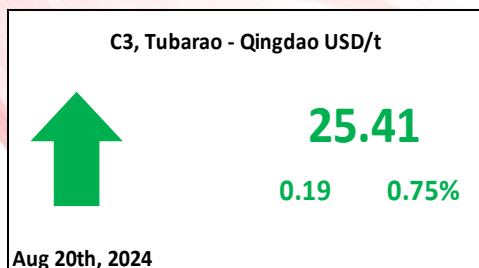
Iron Ore Price Indices



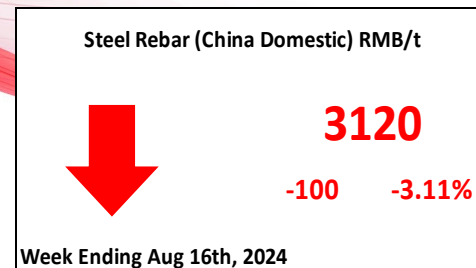
Exchange Traded Contracts



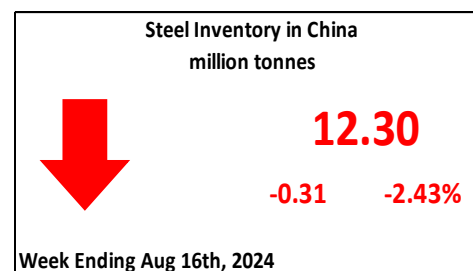
Freight Rates



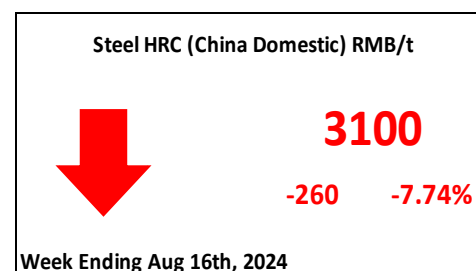
Steel Price



Inventory Levels



Steel Price



IRON ORE PORT STOCK INDEX (IOPI)

Aug 21st, 2024		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²	Price	Change	Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	753	5.8	0.78%	880	895	770	1063	97.83	0.81	0.8%	116.38	121.03	101.00	140.00
IOPI58	58% Fe Fines	641	10.4	1.64%	785	781	665	963	83.54	1.43	1.7%	104.50	106.10	86.00	128.00
IOPI65	65% Fe Fines	865	5.9	0.68%	996	1026	881	1175	112.90	0.82	0.7%	132.21	139.47	116.00	155.00

IRON ORE SEABORNE INDEX (IOSI)

MARKET COMMENTARY

Aug 21st, 2024		CFR Qingdao, USD/dry tonne							Iron ore futures opened high and moved higher, with the most-traded contract I2501 surging significantly to close at 742, up 4.58% for the day. Traders' enthusiasm for selling increased noticeably. Steel mills were more cautious, with average purchasing intentions. The overall market transaction atmosphere was acceptable today. In Shandong, PB fines traded at 745-750 yuan/mt, up 15-20 yuan/mt from yesterday. In Tangshan, PB fines traded at 745-750 yuan/mt, up 15-20 yuan/mt from yesterday. Finished steel prices stabilized and rebounded, steel mill profits recovered somewhat, and expectations for improved demand in the peak season strengthened, boosting ferrous metals significantly. However, this week, SMM reported a blast furnace operating rate of 91.42%, down 0.95% WoW. Sample steel mills' daily pig iron production was 2.2421 million mt, down 25,100 mt WoW. Iron ore demand continues to decline, and pressure on iron ore remains, with limited upward momentum. Attention should be paid to the future improvement in apparent steel demand.
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²	
IOSI62	62% Fe Fines	96.20	-0.76	-0.78%	116.42	116.42	99.20	146.75	
IOSI65	65% Fe Fines	110.60	-2.69	-2.37%	130.60	130.60	115.45	171.65	

IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending Aug 16th, 2024		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ³						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	860	-85	-9.0%	994	1041	900	1210	107.33	-11.07	-9.35%	126.95	136.27	113.28	153.57

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending Aug 16th, 2024				RMB/tonne (excluding tax) ³				USD/tonne (excluding tax) ³			
Province	Region	Product	Basis	This week	Change %	Low ²	High ²	This week	Change %	Low ²	High ²
Hebei	Hanxing	66% Fe Concentrate	Dry	939	0.1%	779	1645	131.43	0.03%	110.31	255.69
Hebei	Qian'an	65% Fe Concentrate	Dry	990	-4.3%	780	1630	138.57	-4.42%	109.18	251.57
Liaoning	Anshan	65% Fe Concentrate	Wet	780	-2.5%	620	1310	109.18	-2.57%	87.40	202.32
Shandong	Zibo	65% Fe Concentrate	Dry	993	0.1%	800	1752	138.99	0.03%	0.00	272.32

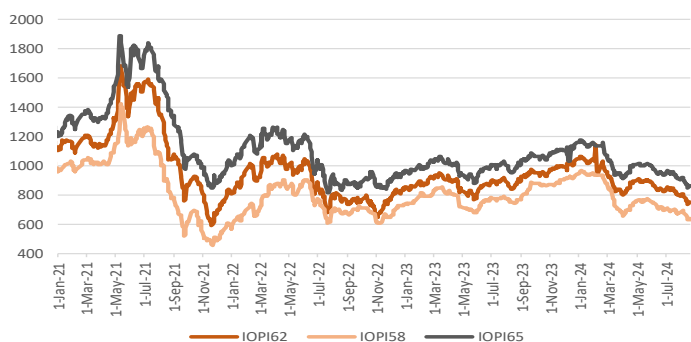
Week Ending Aug 16th, 2024

This week	Change %	Low ²	High ²
902.08	-2.03%	706.36	1511.22

China Mines Concentrate Composite Index RMB/WT

¹ Exchange rate applied: RMB/USD = 6.7522 ² Last 12 months
³ Weekly exchange rate applied: RMB/USD = 6.87528

IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT)



IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT)



IRON ORE PORT STOCK INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Aug 21st, 2024		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	April	May	June	July	MTD	QTD	YTD	April	May	June	July	MTD	QTD	YTD
IOPI62	62% Fe Fines	857	894	842	829	880	874	895	112.32	117.28	110.03	107.99	115.32	115.83	120.56
IOPI58	58% Fe Fines	711	762	719	692	785	779	781	93.48	100.47	94.46	90.48	103.33	103.96	105.35
IOPI65	65% Fe Fines	969	1006	954	940	996	992	1026	127.43	132.42	125.13	123.05	131.20	131.91	139.19

IRON ORE SEABORNE INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

FREIGHT RATES

Aug 21st, 2024		CFR Qingdao, USD/dry tonne							Aug 20th, 2024						
Index	Fe Content	April	May	June	July	MTD	QTD	YTD	Route		Designation		FREIGHT RATES - DRY BULK US\$/wet tonne		
									Change	Change %	Low ²	High ²			
IOSI62	62% Fe Fines	112.78	120.10	110.42	107.58	112.14	115.18	116.42	10.91	0.15	1.44%	3.57	16.77		
IOSI65	65% Fe Fines	124.98	136.06	125.14	123.01	122.86	129.04	130.60	25.41	0.19	0.75%	6.70	36.40		

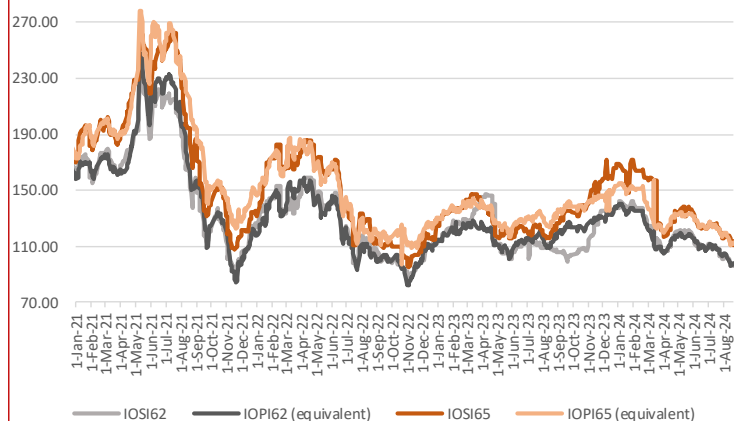
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending Aug 16th, 2024		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						
Index	Fe Content	April	May	June	July	MTD	QTD	YTD	April	May	June	July	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	997	1024	1011	1001	933	989	1017	125.79	129.18	127.27	125.75	119.96	126.47	134.98

IRON ORE INDEX PREMIUMS/DISCOUNTS

Aug 21st, 2024		PORT STOCK INDEX (RMB/WT)		Aug 21st, 2024		SEABORNE INDEX (USD/DMT)	
Index	Fe Content	Spread to IOPI62	% Spread to IOPI62	Index	Fe Content	Spread to IOSI62	% Spread to IOSI62
IOPI58	58% Fe Fines	-113	-14.95%	IOSI65	65% Fe Fines	14.40	14.97%
IOPI65	65% Fe Fines	112	14.83%				

IRON ORE INDEX COMPARISONS (USD/DMT)



CHINA DOMESTIC COMPOSITE MINES INDEX (RMB/Wet Tonne, including VAT)



IRON ORE BRAND SPOT PRICE ASSESSMENTS

Aug 21st, 2024				Aug 21st, 2024			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	696	6	-57	Roy Hill	91.70	-0.76	-4.50
SIMEC Fines	623	6	-130	SIMEC Fines	88.20	-0.76	-8.00
PB Fines	723	6	-30	PB Fines	92.45	-0.76	-3.75
Newman Fines	721	6	-32	Newman Fines	95.35	-0.74	-0.85
MAC Fines	703	6	-50	MAC Fines	92.45	-0.76	-3.75
Jimblebar Blended Fines	617	6	-136	Jimblebar Blended Fines	84.85	-0.74	-11.35
Carajas Fines	933	6	180	Carajas Fines	125.75	-0.76	29.55
Brazilian SSF	714	6	-39	Brazilian SSF	99.95	-0.76	3.75
Brazilian Blend Fines	736	6	-17	Brazilian Blend Fines	101.55	-0.79	5.35
RTX Fines	635	6	-118	RTX Fines	86.05	-0.79	-10.15
West Pilbara Fines	665	6	-88	West Pilbara Fines	90.45	-0.76	-5.75

Aug 21st, 2024			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	641	11	0
FMG Blended Fines	649	11	8
Robe River	650	12	9
Western Fines	652	11	11
Atlas Fines	647	11	6
Yandi	635	11	-6

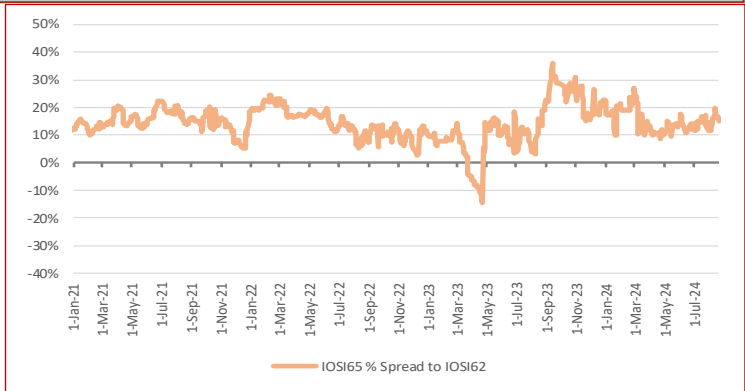
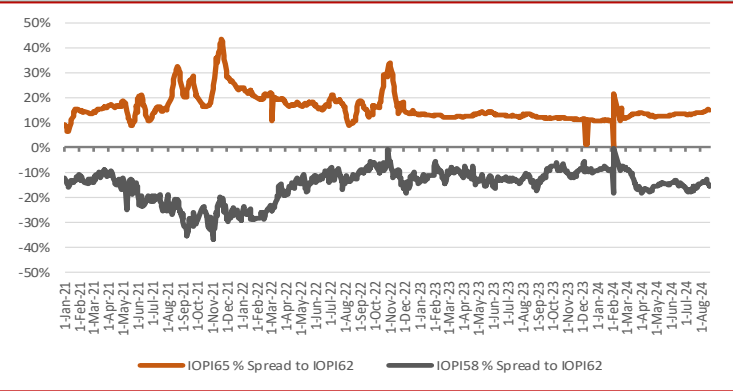
IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port Stock Index Product Differentials (RMB/wet tonne)				Seaborne Index Product Differentials (USD/dry tonne)			
	Applicable range	Value	Change		Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	15.00	0.00	1% Fe	High Grade Fe 60 - 63%	3.25	-0.25
	High Grade Fe 63 - 64%	24.00	-1.00		High Grade Fe 63 - 64%	2.25	-0.50
	High Grade Fe 64 - 65%	24.00	-1.00		High Grade Fe 64 - 65%	2.25	-0.50
	High Grade Fe 65 - 65.5%	24.00	-1.00		High Grade Fe 65 - 65.5%	2.25	-0.50
1% Alumina	Low Grade Fe	23.00	0.00	1% Alumina	High Fe Grade Al <2.25%	0.50	-0.25
	High Fe Grade Al <2.25%	48.00	0.00		High Fe Grade Al 2.25-4%	0.25	0.00
	Low Fe Grade Al <2.25%	13.00	-5.00				
	Low Fe Grade Al 2.25-4%	40.00	0.00				
1% Silica	High Fe Grade Si <4%	35.00	-1.00	1% Silica	High Fe Grade Si <4%	0.75	0.00
	High Fe Grade Si 4-6.5%	45.00	-1.00		High Fe Grade Si 4 - 6.5%	0.75	0.00
0.01% Phosphorus	Low Fe Grade	29.00	1.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	1.25	0.00
	High Fe Grade 0.09%<P<0.115%	6.00	0.00		High Fe Grade 0.115%<P<0.15%	0.50	0.00
	High Fe Grade 0.115%<P<0.15%	6.00	0.00				
	Low Fe Grade 0.09<P<0.1%	5.00	0.00				

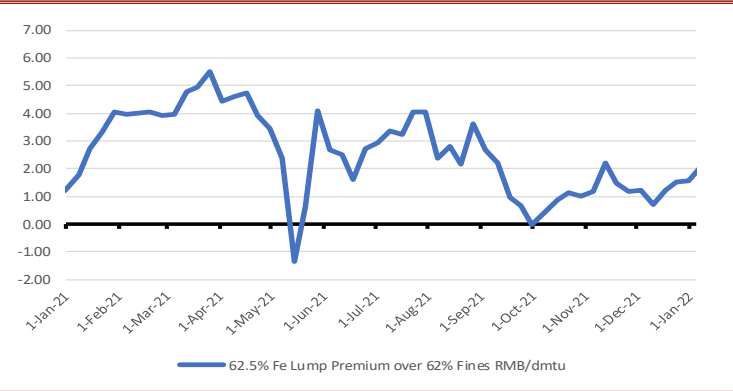
Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-50.00	0.00	Fangcheng	-25.00	0.00	Lanshan	0.00	0.00	Rizhao	0.00	0.00
Beilun	0.00	0.00	Jiangyin	-30.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-15.00	0.00	Jingtang	-15.00	0.00	Majishan	0.00	0.00	Taichang	-20.00	0.00
Dalian	0.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-10.00	0.00

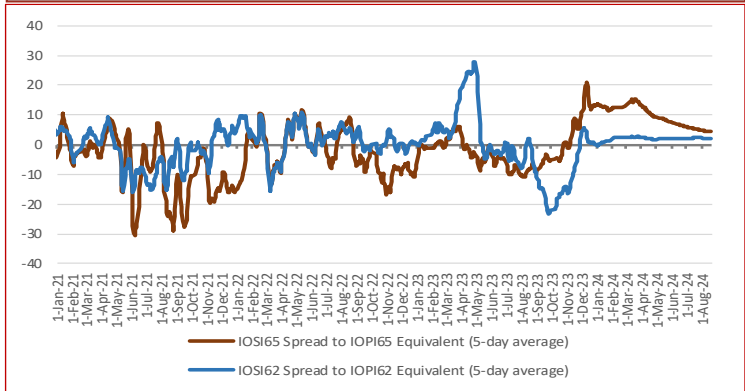
IRON ORE INDEX PREMIUMS/DISCOUNTS



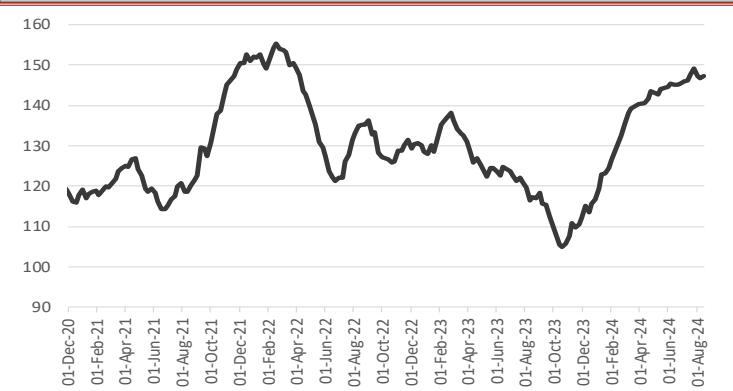
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



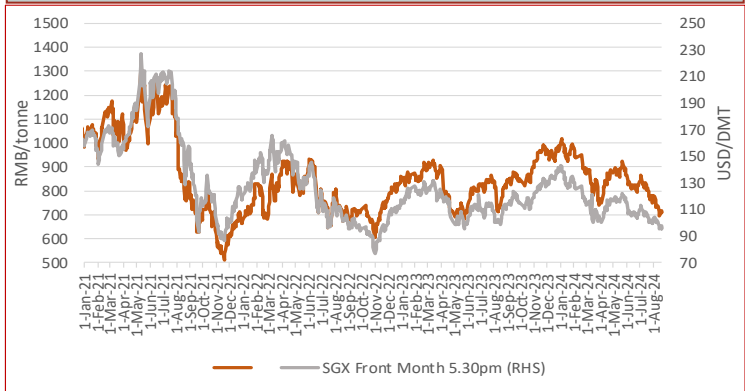
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



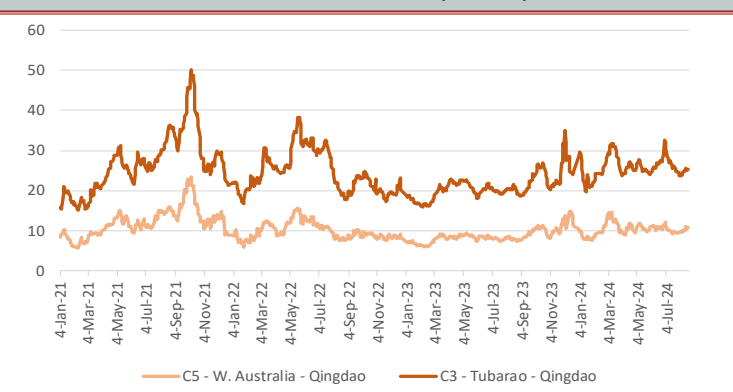
IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending Aug 16th, 2024				
Province	This week	Change %	Low ²	High ²
Jingtang	15.37	-1.22%	8.41	19.20
Qingdao	23.72	2.29%	9.41	26.24
Caofeidian	17.58	2.03%	7.56	17.58
Tianjin	11.57	1.40%	6.49	12.97
Rizhao	20.15	0.95%	9.44	20.15
Total (35 Ports)	147.16	0.33%	98.80	155.39

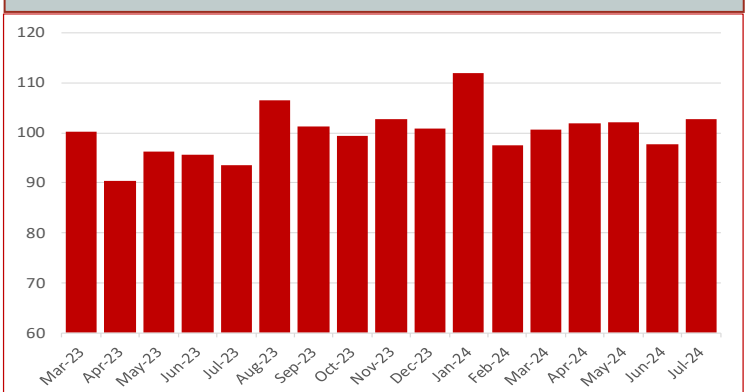
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Aug 21st, 3pm close			Aug 21st, 5:30pm		
Contract	I2501	Change	Change %	August. 24	Change	Change %
Closing Price	716.50	6.00	0.84%	98.25	2.55	2.66%
Vol traded ('000 lots)	54.41	12.97	31.31%	13.32	3.76	39.26%
Open positions ('000 lots)	48.35	-1.22	-2.47%	36.56	-1.15	-3.04%
Day Low	716.5	15.50	2.21%	95.40	1.90	2.03%
Day High	744.0	26.50	3.69%	99.20	3.45	3.60%

DRY BULK FREIGHT RATES (USD/MT)



TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

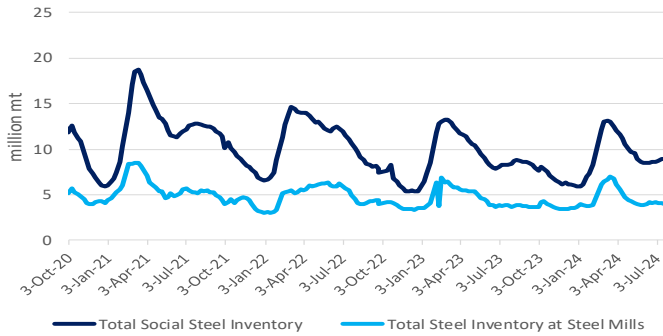
Steel Spot Market RMB/tonne			
Product	2024/8/16	Change	Change %
ReBar HRB400 φ18mm	3,120	-100	-3.11%
Wirerod Q300 φ6.5mm	3,420	-110	-3.12%
HRC Q235/SS400 5.5mm*1500*C	3,100	-260	-7.74%
CRC SPCC/ST12 1.0mm*1250*2500	3,710	-110	-2.88%
Medium & Heavy Plate Q235B 20mm	3,220	-210	-6.12%
GI ST02Z 1.0mm*1000*C	3,970	-130	-3.17%
Colour Coated Plate	6,150	-50	-0.81%

CHINESE STEEL MILL PROFITABILITY

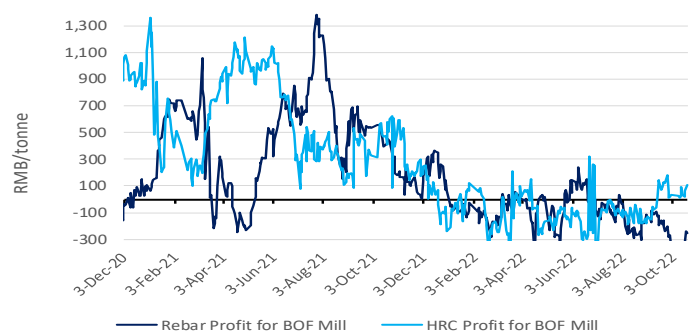
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)			
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	98.15	-3	Mmi CFR Equivalent index for 1st Feb
Coke	2,010	-55	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,390	-140	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	2,637	-98	Q234, incl. tax
Rebar cost - Blast furnace	3,206	-111	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	-166	-9	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,277	-107	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	-187	-173	based on Shanghai prices, incl. tax

Note: 1. Costs in the table are calculated based on today's market prices and factored our management, sales, financial and depreciations fees.
2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

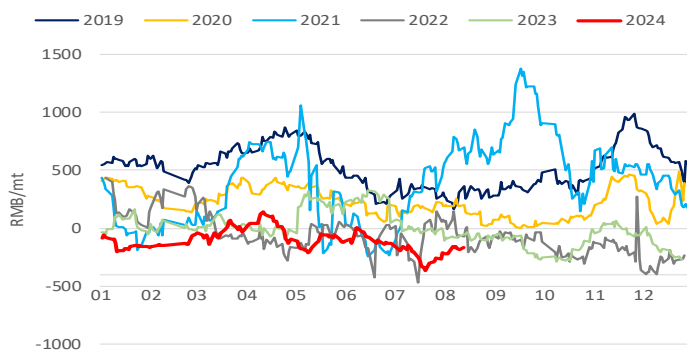
CHINESE STEEL INVENTORIES



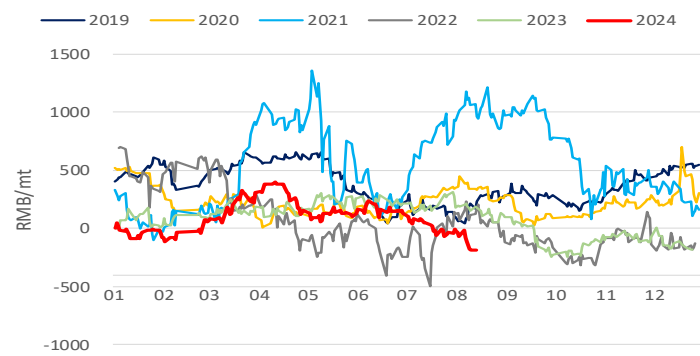
CHINESE STEEL MILL PROFITABILITY



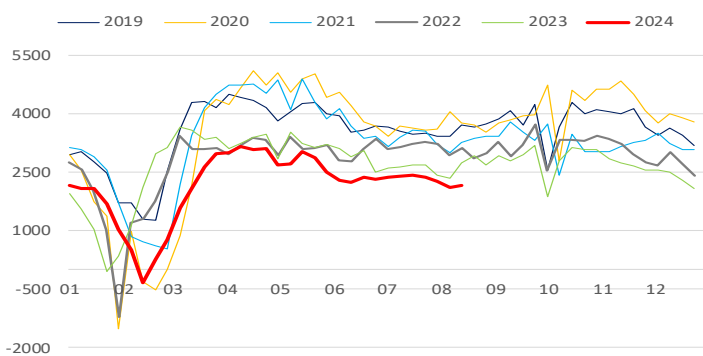
CHINESE STEEL MILL PROFITABILITY—Rebar



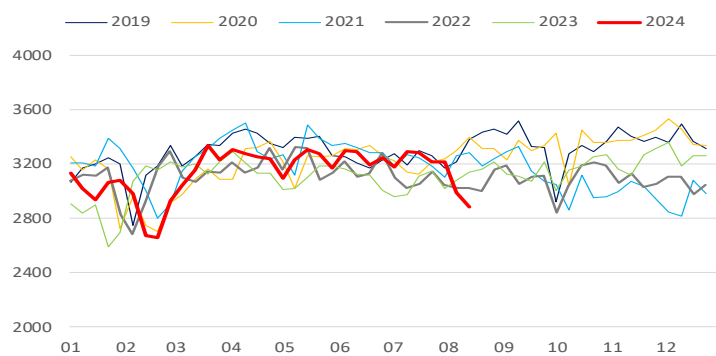
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



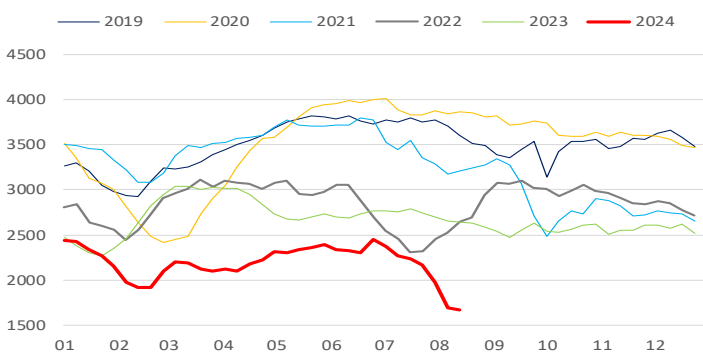
CHINESE STEEL CONSUMPTION—Rebar



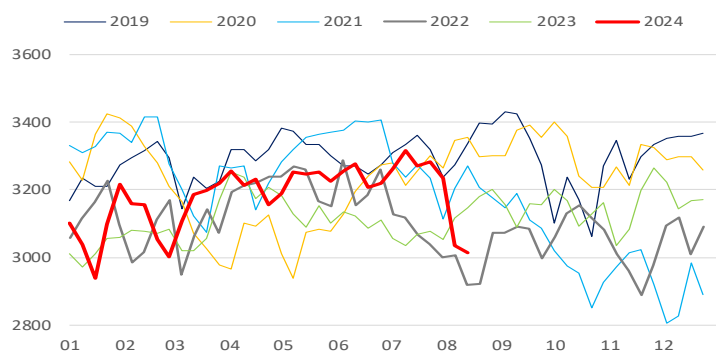
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



CHINESE STEEL PRODUCTION—Rebar



CHINESE STEEL PRODUCTION—Hot-rolled Coil



IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

Iron Ore Index Specifications (Port and Seaborne)					Iron Ore Index Compilation Rationale and Data Exclusions
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indices are compiled from data provided by companies that are part of the iron ore supply chain and involved in spot market transactions. The indices are calculated using detailed transaction-level data submitted to MMi by these companies. This data is normalised to the appropriate specifications and screened to remove outliers before volume-weighted average prices are calculated from the remaining core set of data. For more details on MMi's iron ore methodology please download the guide published on our website at: www.mmiprices.com
Fe %	65.00	62.00	58.00	62.50	
Alumina %	1.40	2.25	2.25	1.50	
Silica%	1.50	4.00	5.50	3.50	
Phosphorus %	0.06	0.09	0.05	0.08	
Sulphur %	0.01	0.02	0.02	0.02	
Moisture %	8.00	8.00	9.00	4.00	
Sizing	Granular size below 10mm for at least 90% of cargo; maximum of 40% below 150 micron		Size below 6.3mm max 15% Size above 31.15mm max 25%		
Pricing Point	Qingdao Port (FOT and CFR respectively)		FOT Qingdao Port		
Timing (Seaborne)	Loading within 4 weeks, Delivery within 8 weeks		Delivery within 2 weeks		
Payment Terms	L/C at sight		L/C at sight or CAD		
Data Exclusions*					
Port Index	62%	58%	65%		
Seaborne index	0	0	0		
Lump Index 62.5	0				
* Number of price submissions for iron ore indices that were excluded from index calculations today as they were anomalous and could not be verified					

IRON ORE DOMESTIC CONCENTRATE INDEX CALCULATION METHODOLOGY

The compilation method for price index generally refers to the compilation method of CPI price index and other price indices, breakdown the price data and calculate the average value according to a certain method, taking the vertical axis as the regional composite index (average of different grade index) and the horizontal axis as the grade composite index (average of different regional index), a total composite index for domestic ore can be output ultimately. The process system is also adopted in the calculation i.e. each sub-index can be obtained as well.

AVERAGE IRON ORE SPECIFICATIONS APPLIED FOR BRAND PRICE ASSESSMENTS

PORT STOCK BRANDS						SEABORNE BRANDS					
Aug 21st, 2024	Specifications applied for 62% brand assessments						Specifications applied for 62% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
Roy Hill	60.88%	2.35%	4.45%	0.055%	9.26%	Roy Hill	60.70%	2.30%	4.90%	0.055%	8.00%
SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%	SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%
PB Fines	61.64%	2.31%	3.87%	0.099%	9.45%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	9.50%
Newman Fines	62.49%	2.31%	3.98%	0.090%	7.72%	Newman Fines	62.30%	2.40%	4.30%	0.095%	8.00%
MAC Fines	60.43%	2.38%	4.64%	0.078%	7.57%	MAC Fines	60.80%	2.35%	4.40%	0.075%	7.80%
Jimblebar Blended Fines	60.87%	2.95%	4.53%	0.111%	7.32%	Jimblebar Blended Fines	60.50%	3.10%	4.80%	0.120%	7.80%
Carajas Fines	64.90%	1.39%	1.82%	0.080%	7.78%	Carajas Fines	65.10%	1.50%	1.70%	0.080%	8.50%
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%	Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%
Brazilian Blend Fines	62.56%	1.58%	4.79%	0.091%	8.72%	Brazilian Blend Fines	63.00%	1.50%	5.00%	0.070%	7.00%
RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%	RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%
West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%	West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%
Aug 21st, 2024	Specifications applied for 58% brand assessments						Specifications applied for 58% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
SSF	56.49%	3.20%	6.19%	0.065%	9.18%						
FMG Blended Fines	58.20%	2.43%	5.54%	0.057%	8.29%						
Robe River	56.44%	3.16%	5.73%	0.042%	8.44%						
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%						
Atlas Fines	58.00%	1.85%	5.50%	0.090%	9.00%						
Yandi	56.87%	1.58%	6.41%	0.042%	9.53%						

BLOOMBERG TICKERS

PORT STOCK INDICES				SEABORNE INDICES	
	FOT Qingdao (RMB/wet tonne)		CFR Qingdao Equivalent (USD/dry tonne)		CFR Qingdao (USD/DMT)
IOPI62	IRCNQ001		IRCNQ004		IRCN0034
IOPI58	IRCNQ002		IRCNQ005		IRCN0035
IOPI65	IRCNQ003		IRCNQ006		
IOPLI62	IRCN0036		IRCN0037		

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