Product Tanker Outlook

6th Chemical and Product Tankers Conference London, 11-12 March 2014

Jeff McGee Makai Marine Advisors







Topics for discussion

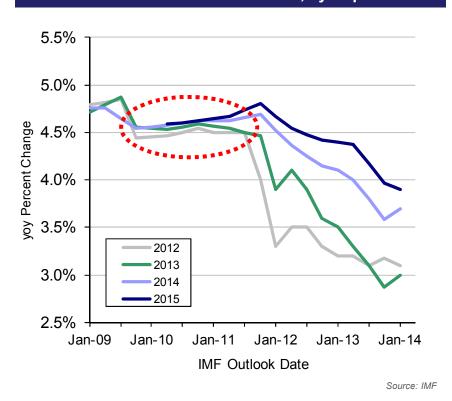
- Macro & Demand Outlook
- Refining Developments
- Product Trade
- Product Tanker Supply
- Freight & Asset Price Outlook
- Conclusions



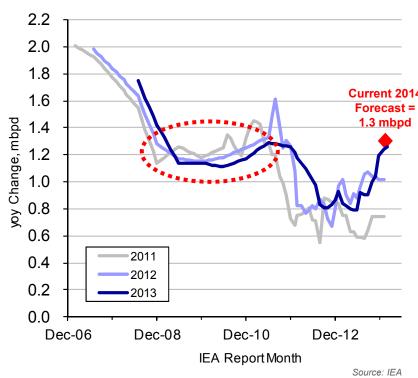
Macroeconomic & Oil Demand Outlook

Faced with slowing global performance, IMF finally abandoned its "4.5% forever & ever" global GDP growth forecasts

IMF Global GDP Growth Forecasts, by Report Date

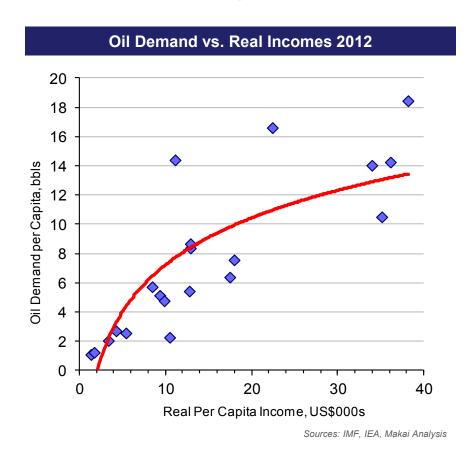


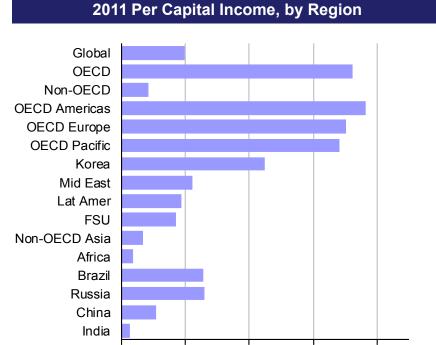
IEA Global Oil Demand Growth Forecasts



March 2014

Non-OECD economies approaching per capita income levels with accelerating oil demand





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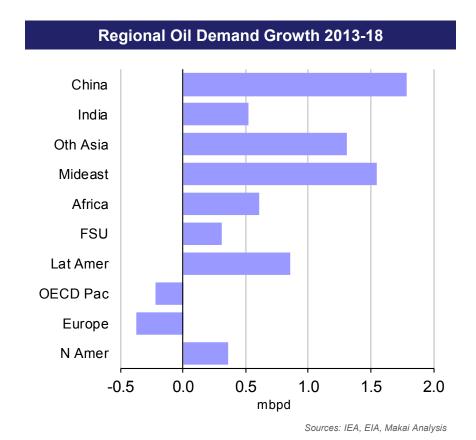
Per Capita Income, US\$000s

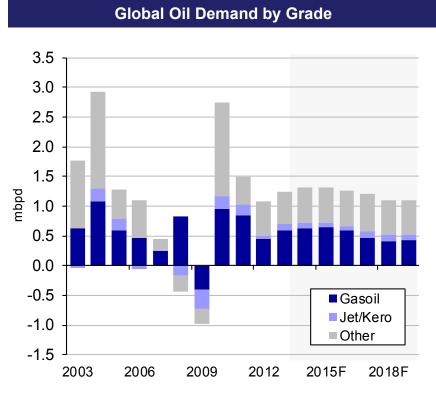
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Source: IMF

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Rapid real GDP growth driving oil demand in non-OECD markets, with heavy reliance on gasoil





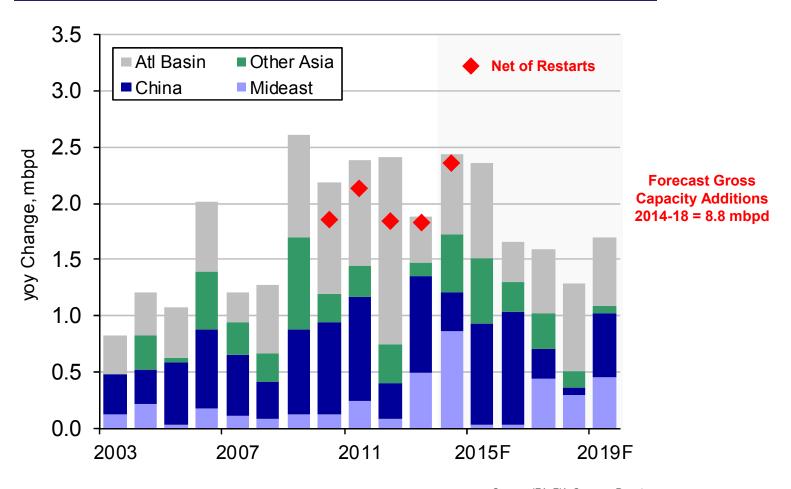
- Incremental gasoil demand growth to account for 45% of global oil demand growth
- Mid-distillates to take 52% share of incremental growth

Sources: IEA, EIA, Makai Analysis

Refining Developments

Mideast and Asian projects dominate forecast gross distillation capacity additions

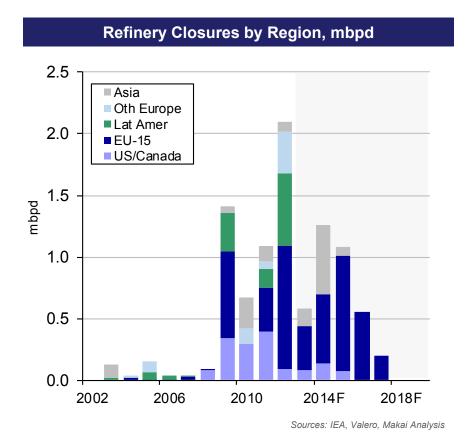
Global Distillation Capacity, Gross Additions (Including Restarts)

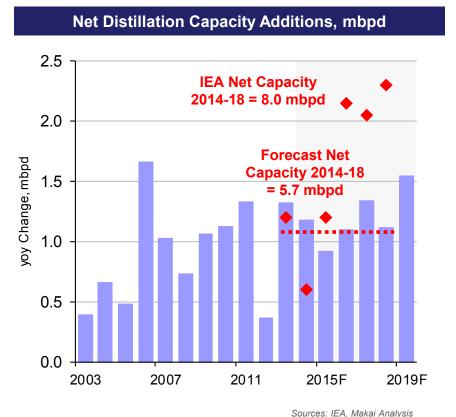


Sources: IEA, EIA, Company Reports

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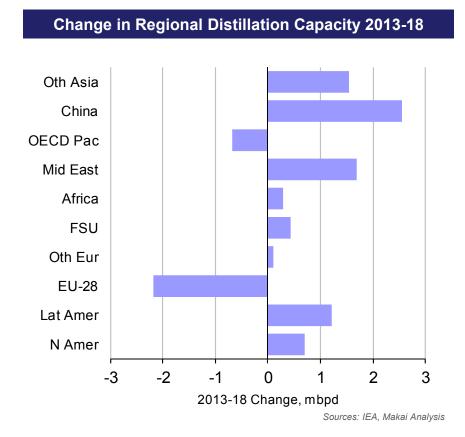
Aggressive capacity additions in weak margin environment will require a new round of refinery closures

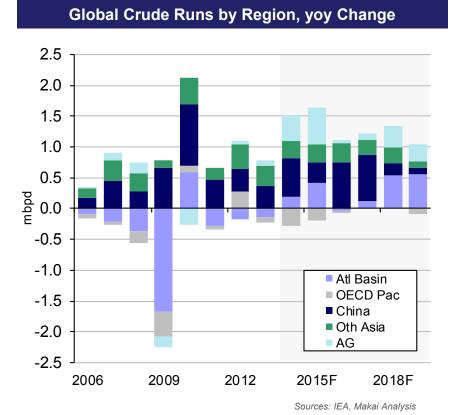




- Cumulative refinery closures since 2008 = 6.0 mbpd
- Net of 1.2 mbpd of refinery restarts, net closures = 4.8 mbpd
- Additional 3.8 mbpd of closures required to keep net additions near average demand growth

Pacific Basin crude runs to rise sharply with capacity additions and rationalisation in Atlantic Basin

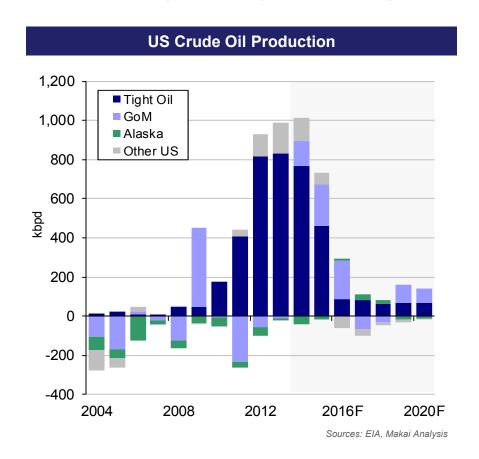


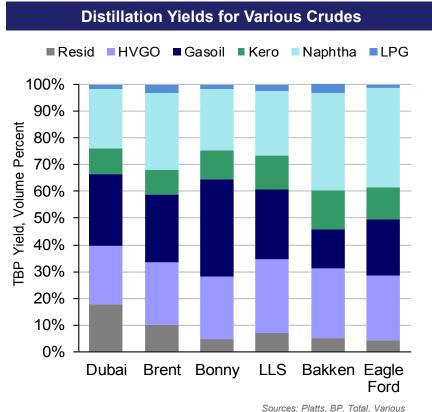


- Refiners must shed 2.1 mbpd of refining capacity in Europe to keep global net additions at 5.7 mbpd
- With 0.8 mbpd of NGLs, biofuels and direct crude burn bypassing the refining system, crude runs rise by 6.2 mbpd to meet 6.7 mbpd of demand demand growth and stock building

US Refining

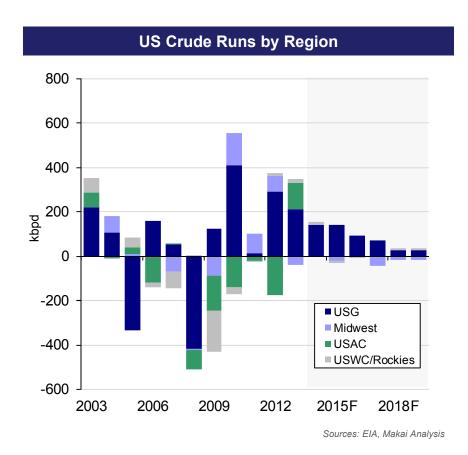
US crude oil production continues to rise from tight oil output, but poses growing challenge for US refiners

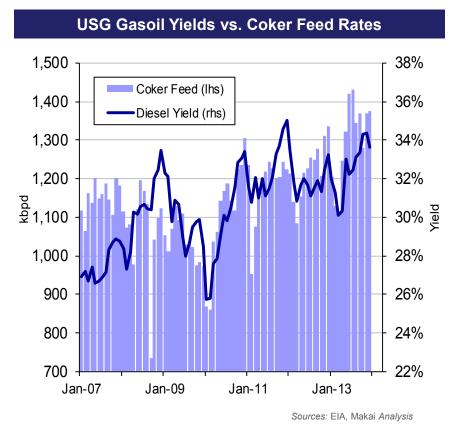




- Shale oil are extremely light with API gravities in the 40s (Bakken 41° and Eagle Ford 47°)
- High proportion of light ends a challenge for USG refineries configured for heavy crudes
- Shale oils have relatively-low kero/gasoil yields and are more suitable for gasoline production

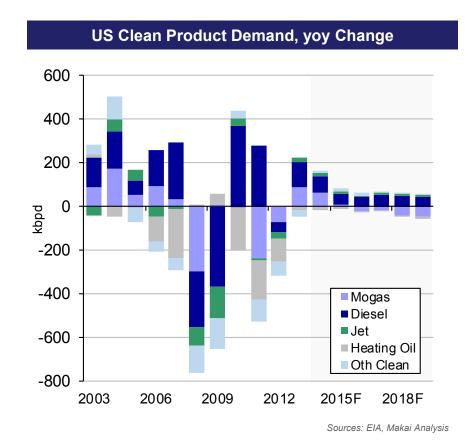
Although refining margins and tight oil supply have supported USG crude runs, other factors also driving gasoil surplus



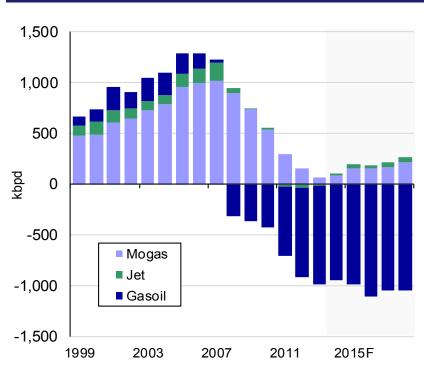


- USG refinery gasoil production jumped 118 kbpd yoy in 2013, versus 214 kbpd rise in crude runs
- Higher USG coker and hydrocracker feed rates boosted gasoil yields
- Unusual decline in regional gasoil demand also lifted product available for export

Stabilising crude runs and recovering oil demand should prompt a flattening in US clean product net exports



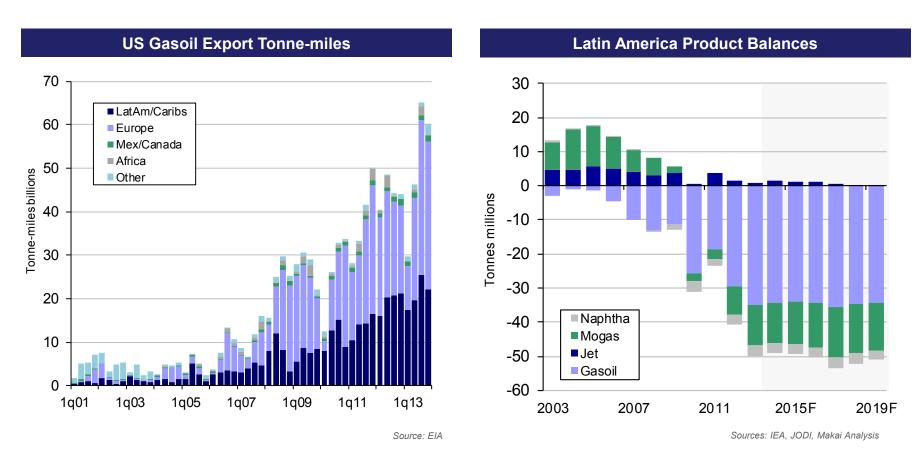




Sources: EIA, Makai Analysis

Product Trade

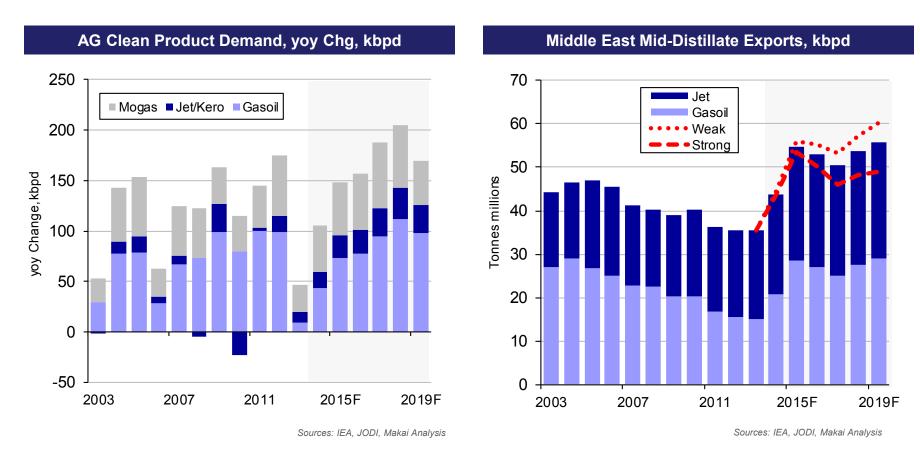
Strong product demand & refinery closures boosted US export demand to Latin America, but balance to stabilise



 Europe is actually a stronger tonne-mile contributor to US gasoil exports than Latin America, adding 50 billion tonne-miles since 2010, versus 40 billion tm from Latin America

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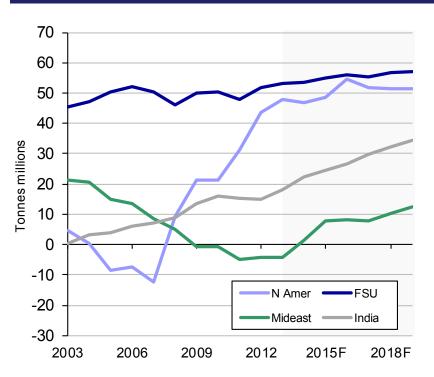
Rapid economic growth in AG drives strong product demand, offsetting impact of export refineries after 2015



 Impact on AG region even more pronounced, as strong demand reverses capacity additions at Jubail, Ruwais and other AG projects by 2017-18

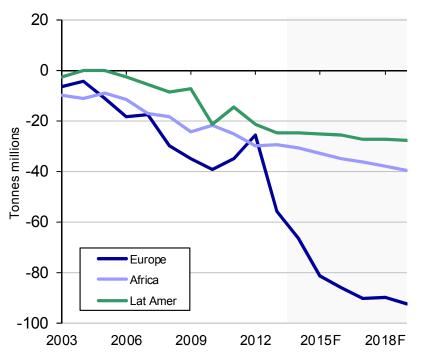
Growing European structural gasoil deficit from refinery rationalisation drives import demand and tonne-miles

Gasoil Surplus Regions, mtpa



Sources: IEA, JODI, Makai Analysis

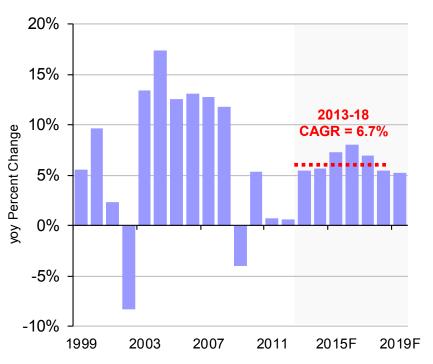
Gasoil Deficit Regions, mtpa



Sources: IEA, JODI, Makai Analysis

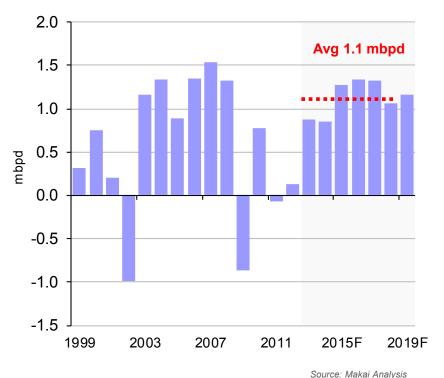
Start-up of AG refineries and further gains in European gasoil imports should boost tonne-mile demand in 2014

Product Tanker Tonne-miles, yoy Pct Change



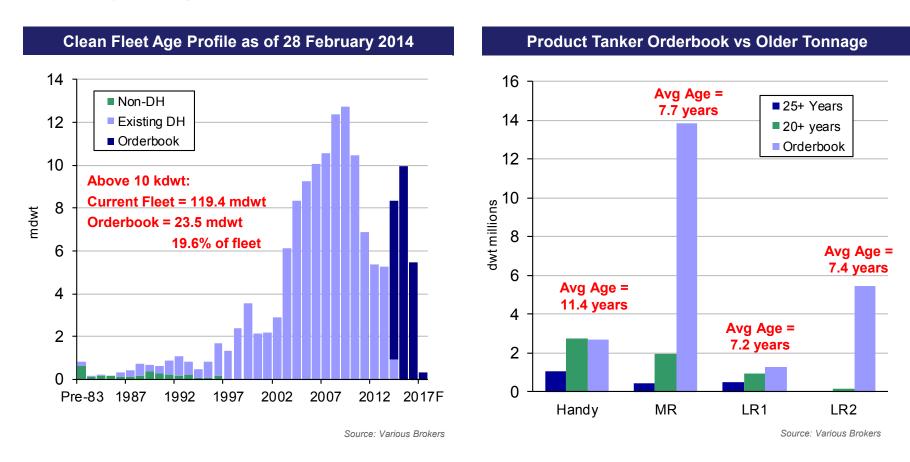
Source: Makai Analysis

Product Tanker Trade Volume, yoy Change, kbpd



Product Tanker Supply

Product tanker deliveries rebounding after 2011-13 pause, but fleet is young, with limited demolition candidates

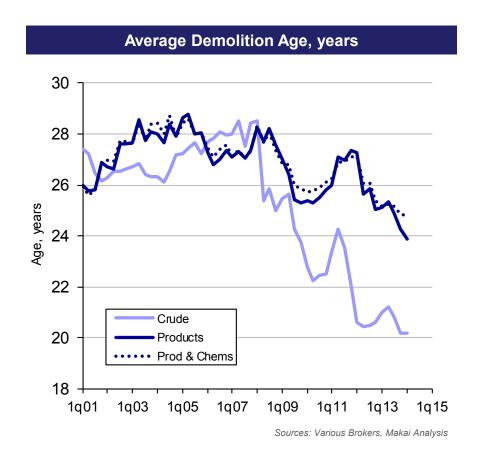


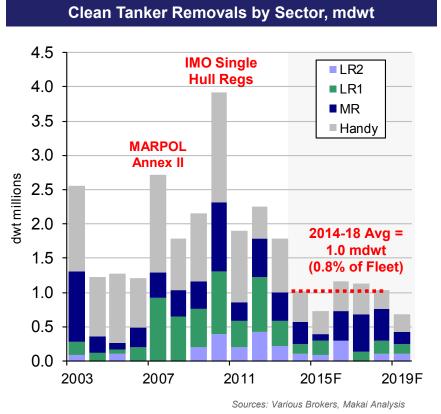
- Average age of fleet (Handysize and above) = 8.5 years
- With only 4.9% of fleet 20 years or older, limited demolition candidates available to provide supply relief

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Sector performance then reliant upon ordering discipline and demand to remain in balance

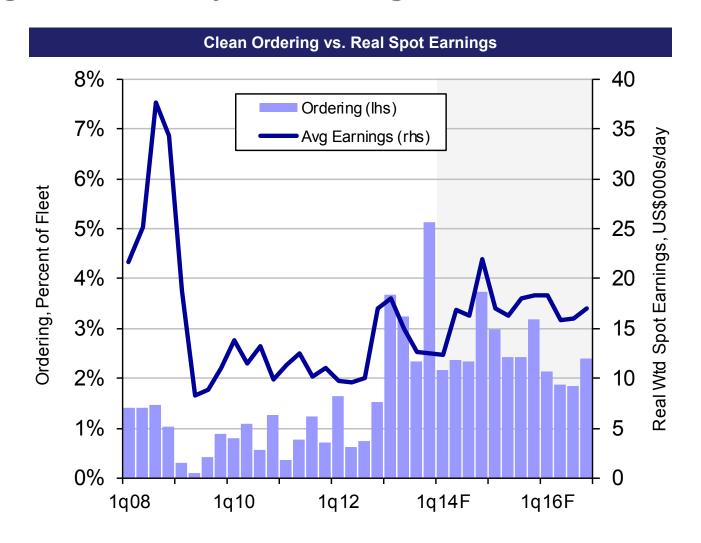
With new fleet, older product tankers facing increasing age discrimination, prompting younger demolition





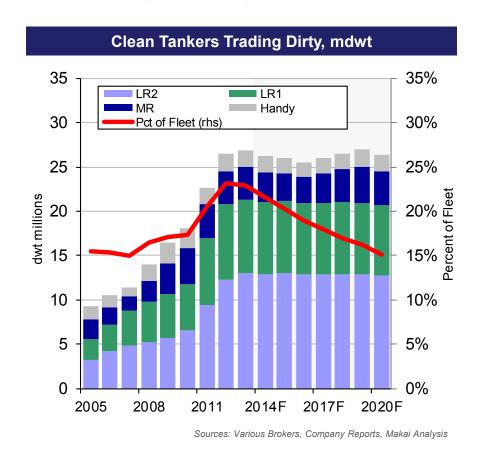
- Tighter vetting standards and the cost of mandated ballast water management systems represent threats to older clean tonnage and potential for earlier demo ages
- Demo at 20 years would raise near-term removal prospects to 2.0-2.5 mdwt per year, or 2% of fleet

Current orderbook requires ordering discipline, but improving earnings outlook likely to encourage more orders

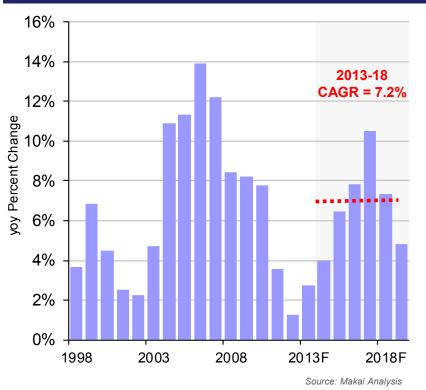


Sources: Baltic Exchange, Various Brokers, Makai Analysis

Clean tankers trading dirty represent a potential overhang, but increasing supply should keep them in dirty market

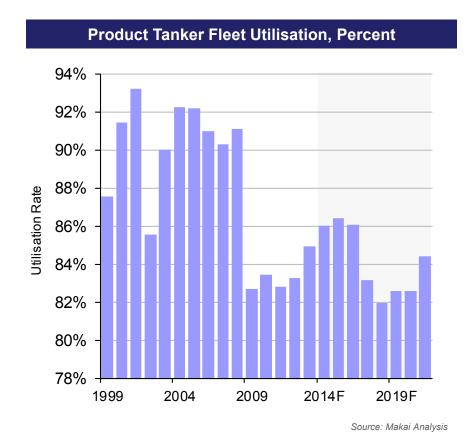


Clean Tanker Operating Fleet Growth, Pct

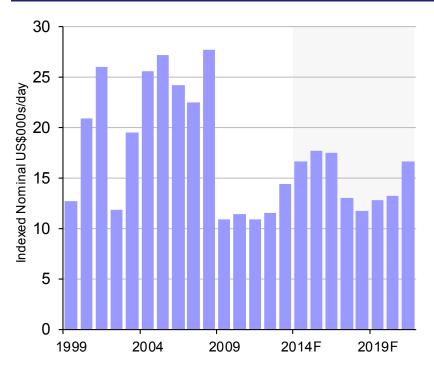


Freight & Asset Price Outlook

Improving clean tanker demand should allow utilisations to recover and push earnings higher, before next wave of supply

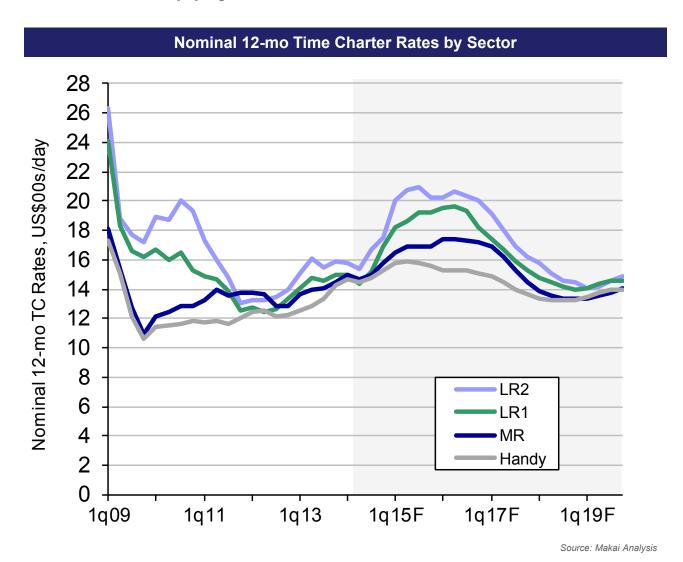




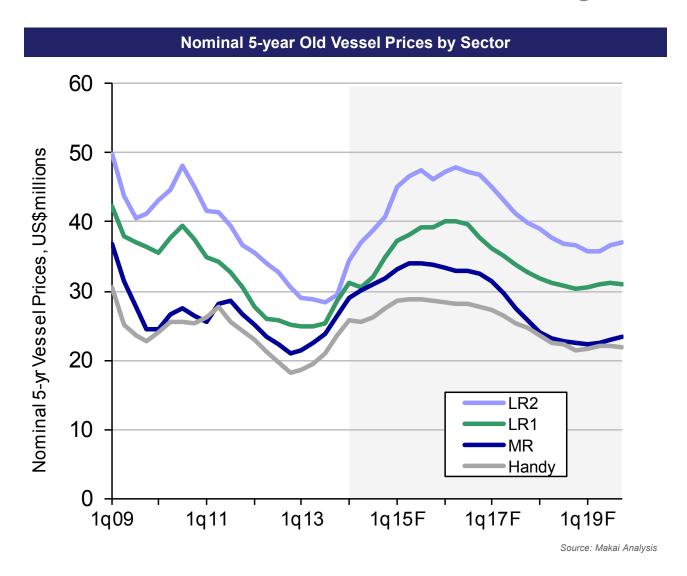


Sources: Makai Analysis

Spot and period earnings could surge in late-2014 on improved demand, before supply arrives in 2015-17



LRs could enjoy rebound in vessel prices, as they return to normal relative valuations versus smaller tonnage



Key Observations

- Gasoil remains a key driver for product tanker demand
- Refinery geographic displacement hypothesis still intact, with new Pacific Basin capacity likely to prompt Atlantic Basin refinery rationalisation
 - Growing structural mid-distillate deficit in Europe, from rationalisation, is critical element to demand growth
- Strong enthusiasm for product tanker sector in capital markets and private equity sector, based upon this investment hypothesis...
- ...but ardour may be cooling
- Recognition that upcoming supply growth from over-ordering may outpace these positive demand fundamentals
- Ordering discipline could still protect markets from 2018-19 downturn

Thank you! (Mahalo Nui!)

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