Iain MacIntyre

A 11-vessel fleet of 23,000-TEU newbuilds Mediterranean Shipping Company (MSC) is to deploy over the course of the next two years will specifically feature measures to increase operational efficiency as well as reduce environmental emissions.

Due to become the world's largest-capacity containerships—about 500 TEU greater than the next-largest currently on order for CMA CGM—the newbuilds will effectively reduce the energy needed to ship each container, explained

MSC chief engineer Giuseppe Gargiulo.

Gargiulo.

"We are committed to providing the most efficiency for our business, our customers and the environment, and these new vessels will be the best yet," he said.

"They will comply with new, tougher environmental regulations and the quality of engineering will set the standard in international container shipping

container shipping.
"When our newbuild team aren't working on new ships they are involved in the day-to-day issues that arise on existing tonnage. This exposure gives them a better grasp of challenges and opportunity to notice things that might otherwise be missed.

"We have distilled 40 years of experience into the design. The way we operate our ships improves as we learn more about them and much of that know-how has gone into these new vessels."

To be equipped with extensive

reefer capacity, the newbuilds — of which six are being built by South Korea's Samsung Heavy Industries and five by Daewoo Shipbuilding and Marine Engineering — will replace a "significant number" of MSC's 13,000-TEU and 14,000-TEU vessels.

Expected to be deployed on the Asia-Europe tradelane, the newbuilds are understood to be 402 metres long and have a breadth of 61.4 metres, with key environmental and efficiency features including:

- MAN B&W 11G95ME-C9.5 main engine with an "ultra-long stroke" to lower the optimum engine speed and allow the use of a larger, more efficient propeller.
- Exhaust gas cleaning systems to ensure air emissions from fuel meet new environmental regulations, while also having capability to use low-sulphur and other fuel sources if required.
- other fuel sources if required.

 Double hull in the engine room to protect equipment and prevent marine pollution in case of an accident.
- Air lubrification system to reduce friction resistance through the water as well as deliver power savings and a 10%-15% net reduction in CO² emissions.

Reported to have "already significantly exceeded" mandatory requirements regarding fire safety in its build programme, MSC is also equipping the newbuilds with a dual tower firefighting system, advanced early warning systems and other equipment to promptly control and cool down any fires.



MSC is equipping with larger newbuilds.

Fragility of supply chain laid bare by Auckland congestion

From page 3

It is easy to see how a one-off incident can quickly snowball and become a major problem for the rest of the supply chain.

What can help the situation is better transparency and an information flow so that all parts of the supply chain, from ports through to truckers and on to the shippers and importers, understand the extent of the situation and can put in contingencies, where possible, to work earlier on the arrangements for bookings and transfers.

I spoke to Ports of Auckland about this and it accepts there are lessons to be learned from the recent situation. National Road Carriers, as mentioned before, has joined with the port to try and see where there can be co-operation to find solutions.

The guts of it is that the supply

chain in Auckland particularly is fragile. There is light at the end of the tunnel for the port thanks to automation, but automation only fixes the port.

There is a need for much better co-ordination between all parts of the supply chain while the work is done.

Auckland roads will still be congested and there will still be a shortage of truck drivers. If Auckland is to keep moving over the next 30 years, with the arrival of another million citizens, the supply chain is going to have to step up to a whole new level of planning, organisation and cooperation.

The changes forced by Ports of Auckland's automation project are just the beginning.

Dave MacIntyre can be contacted at d.macintyre@xtra.co.nz

SOFRANA ANL

Sofrana ANL House 38 Ponsonby Rd, Auckland

NEW ZEALAND - AUSTRALIA, PNG & SOLOMON ISLANDS							
Vessel	Sofrana Tourville	Sofrana Surville	Sofrana Tourville	Sofrana Surville	Sofrana Tourville		
Voyage	223	246	224	247	225		
Tauranga	05 Oct	21 Oct	09 Nov	26 Nov	13 Dec		
Auckland	07 Oct	23 Oct	11 Nov	28 Nov	15 Dec		
Brisbane (N/B)	15 Oct	01 Nov	18 Nov	06 Dec	22 Dec		
Townsville	18 Oct	-	22 Nov	-	26 Dec		
Motukea Island	25 Oct	07 Nov	24 Nov	12 Dec	28 Dec		
Lae	28 Oct	10 Nov	28 Nov	15 Dec	01 Jan		
Kimbe	31 Oct	-	01 Dec	-	04 Jan		
Rabaul	-	13 Nov	-	18 Dec	-		
Honiara	02 Nov	15 Nov	03 Dec	20 Dec	06 Jan		
Brisbane (S/B)	-	20 Nov	08 Dec	25 Dec	11 Jan		
Tauranga	09 Nov	26 Nov	13 Dec	30 Dec	16 Jan		

Remarks

NEW ZEALAND - NEW CALEDONIA							
Vessel	Southern Moana	Sofrana Tourville	Southern Moana	Sofrana Surville	Southern Moana		
Voyage	326	224	327	247	328		
Tauranga	24 Oct	09 Nov	14 Nov	26 Nov	05 Dec		
Auckland	26 Oct	11 Nov	16 Nov	28 Nov	07 Dec		
Noumea	30 Oct	15 Nov	20 Nov	03 Dec	11 Dec		

Remarks

NEW ZEALAND - TONGA & SAMOAS						
Vessel	Southern Lily	Southern Lily	Southern Lily	Southern Lily	Southern Lily	
Voyage	438	439	440	441	442	
Auckland	22 Oct	07 Nov	22 Nov	07 Dec	22 Dec	
Nuku'alofa	28 Oct	12 Nov	27 Nov	12 Dec	27 Dec	
Apia	31 Oct	14 Nov	29 Nov	14 Dec	30 Dec	
Pago Pago	31 Oct	14 Nov	29 Nov	14 Dec	30 Dec	
Auckland	07 Nov	22 Nov	07 Dec	22 Dec	06 Jan	

Remarks

NEW ZEALAND - FIJI							
Vessel	Capitaine Dampier	Capitaine Cook	Capitaine Wallis	Capitaine Dampier	Capitaine Cook		
Voyage	123	104	1	124	105		
Tauranga	26 Oct	02 Nov	06 Nov	09 Nov	16 Nov		
Auckland	27 Oct	03 Nov	08 Nov	10 Nov	17 Nov		
Suva	02 Nov	09 Nov	12 Nov	16 Nov	23 Nov		
Lautoka	04 Nov	11 Nov	14 Nov	18 Nov	25 Nov		
Tauranga	09 Nov	16 Nov	20 Nov	23 Nov	30 Nov		

Remarks

NEW ZEALAND - WALLIS & FOTONA						
1st Leg Vessel	Capitaine Cook	Capitaine Cook	Capitaine Cook	Capitaine Wallis	Capitaine Dampier	
Voyage	104	105	107	02	129	
Auckland	03 Nov	17 Nov	15 Dec	03 Jan	19 Jan	
Suva	09 Nov	23 Nov	21 Dec	07 Jan	25 Jan	
2nd Leg Vessel	Southern Pearl	Southern Pearl	Southern Pearl	Southern Pearl	Southern Pearl	
Voyage	169	170	171	172	173	
Suva	10 Nov	27 Nov	23 Dec	10 Jan	28 Jan	
Wallis	13 Nov	30 Nov	26 Dec	14 Jan	30 Jan	
Futuna	15 Nov	03 Dec	28 Dec	16 Jan	02 Feb	

Remarks - Cargo for this service will be transhipped in Suva.

NEW ZEALAND - TAHITI							
Vessel	Southern Trader	Southern Trader	Southern Trader	Southern Trader	Southern Trader		
Voyage	1431	1432	1433	1434	1435		
Auckland	22 Oct	09 Nov	25 Nov	11 Dec	27 Dec		
Papeete	31 Oct	16 Nov	02 Dec	18 Dec	03 Jan		
Auckland	09 Nov	25 Nov	11 Dec	27 Dec	12 Jan		

Remarks

Centralisation from other NZ centres is available on request. Cutoff for all services is one working day prior to vessel's ETA at load port.



Commentary

Fragility of supply chain laid bare by Auckland congestion

The fragility of New Zealand's supply chain has been exposed several time in recent years, for example through the Canterbury and Kaikoura earthquakes which hammered the ports of Lyttelton and CentrePort, and the 2012 Auckland industrial troubles which disrupted operations there and put huge pressure on the Port of

Tauranga as a back up.

That fragility has been highlighted again by the recent situation at the Ports of Auckland where a "perfect storm" of issues hit an unfortunate nadir with the tragedy of the straddle driver fatality. The accident and the understandable impact on staff at the port saw operations temporarily grind

Quickly, the ramifications spread to the Port of Tauranga which had to handle the import calls of vessels that could not obtain a berth in Auckland. Tauranga began to suffer from congestion as a result.

The situation became heated among shippers and importers and my mailbag received one irate email from a person concerned that there were inadequate information flows on the congestion in Auckland and arguing that much better engagement was needed so that other parts of the supply chain could prepare contingencies to handle diverted

Given that the situation in Auckland is going to be difficult for quite some time, that's a valid point. I'm aware that the Ports of Auckland and National Road Carriers, representing the trucking industry, have recently been talking to explore how there can be more co-operation and transparency in future.

The bottom line is that the market as a whole may have to understand the issues in Auckland better, and may have do some things differently in order for the supply chain to function better in future.

So let's try to achieve that greater understanding by analysing the factors in this perfect storm, and why the port is operating at capacity.
First of all there is the yard

automation project underway at Ports of Auckland. Areas of the port have had to be reserved for construction and trialling of the new automated straddles. A straddle guidance system

— a ground-based GPS — is being installed, requiring trenching for 25km of fibre optic cable and new lighting towers with radio transmitters.

The net effect is that somewhere upwards of 20% of the yard space is compromised and to compensate the port has to stack boxes higher. This impacts productivity because the higher the stack, the more moves are required when boxes in the middle of the stack need to be retrieved.

Also, traditional straddles have to divert around the civil works, meaning that box moves are slower. Add to that the prevalence of ships arriving at the port off-window — i.e. outside the time for which a berth has been reserved. In the last 12 months over

By Dave MacIntvre



half of ships arrived outside their planned arrival time

This is not usually the fault of the shipping lines. They usually set up their schedules to a fixed-day weekly rotation and book berth windows accordingly. However, typhoons in North Asia or berth delays overseas

make ships run late.

Late ships make it difficult for ports to provide the right amount of labour to service ships and trucks. The berth windows are calculated based on expected cargo exchanges for which the required labour force can be organised in advance but late arrivals mean pulling in people at short notice.

Late ships clash with the arrival of other on-time vessels which leads to ships having to wait (or divert), berth congestion, further yard congestion and delayed exchanges via road and

All of this is occurring against a general trend of rising container volumes which all ports have to deal

For those reasons, Ports of Auckland was already hitting capacity before the straddle tragedy. When operations ground to a halt because of that, the fragility of our supply chain was fully exposed, and the Port of Tauranga suddenly faced the added pressure too.

Let's turn the spotlight on another part of the supply chain, namely the trucking industry because it too is

grappling with many difficult issues.

It is facing cost increases across the board — fuel price rises (exacerbated in Auckland because of the regional fuel tax), road user charges increases and a shortage of drivers

There is chronic congestion on Auckland roads which holds up trucks, creates delays in picking up and dropping off boxes and reduces productivity. Costs of doing business in Auckland are rising. Truckers can't easily deal with added pressures.

However, due to the automation project the truck grid has lost some slots. This has been an area of some controversy in the past as truckers and the port have tried to find a compromise solution between the ideal of getting a slot at short notice and the port's need for forward bookings and maximum use of slots.

Earlier in the year there was much

ublicity given in changes made to the VBS (vehicle booking system) whereby the port was trying to improve the efficiency of truck exchanges and avoid "bulk bookings" which sometimes led to slots being

Each slot is now required to be allocated to a specific container



A container ship berthed at the Fergusson Terminal at Ports of Auckland.

number for both imports and exports. Truckers and their customers have had to adjust to VBS slots being released 48 hours prior to the booking day and issued on a first-in first-served basis.

That in turn has meant changes required from shippers and importers. They have to pass on information 48 hours prior such as dates for dropping off empties and pick-ups of fulls. MPI and shipping line "holds" must be released in order for truckers to book a

These are examples of the supply chain having to change under pressure, and indeed doing so, from the port to the trucker to the shipping lines and to the shipper.

Perhaps that gives us something of an indicator for the future — the ability of the supply chain to adapt.

The truth is that there has to be adaptation because the reality is that the supply chain, particularly in Auckland, is going to face difficulties for some time ahead.

POAL's automation project means that its infrastructure will be compromised until the project is complete towards the end of 2019. It can't be accelerated.

Other supply chain pressures may come from left field — for example stink bug season is with us again, particularly for car carriers. Earlier this year there were delays with contamination treatments and ships were refused entry, leading to a subsequent bunching of arrivals and a sudden cut of supply to the imported car industry.

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Contact Michael McCarthy (09) 373-7713 mccarthy@lowndeslaw.com www.lowndeslaw.co.nz

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