



CONTINUING SUCCESS FOR FREIGHT FORWARDER USING SHELL LUBEMONITOR TO REDUCE CYLINDER OIL FEED RATE

COMPANY: PT Salam Pacific Indonesia Line

APPLICATION: Main engine

VESSEL: Container ship

KEY EDGE: Shell Alexia, Shell LubeMonitor

REDUCED OIL FEED RATE SAVES THE COMPANY ABOUT

US\$18,760

A YEAR PER VESSEL¹

¹The savings indicated are specific to the calculation date and mentioned site. These calculations may vary from site to site and from time to time, depending on, for example, the application, the operating conditions, the current products being used, the condition of the equipment and the maintenance practices.

Based in Surabaya, Indonesia, interisland freight forwarding company PT Salam Pacific Indonesia Line (PT SPIL) has a strong fleet of 73 vessels and 28 offices located across the Indonesian archipelago. The company is renowned for being a shipping pioneer in East Indonesia. In 1996, the growing need for broader coverage and the demand for more-reliable interisland shipments led PT SPIL to improve its service through handling more break-bulk cargo and using more-efficient means of transport utilising unitised containers. Supported by a Shell Marine distributor, the company continues to improve its network to provide high-quality services for its customers.

As part of its improvement process, PT SPIL wanted to optimise the containership *SPIL Hasya's* consumption of Shell Alexia 50 cylinder oil and to cut its lubrication costs without compromising on engine protection. Shell Marine distributor PT Cakrawala Maju Mapan (PT CMM), with the Shell Marine team, suggested that a feed-rate optimisation programme and cylinder condition monitoring through Shell LubeMonitor and Shell Onboard test solutions would help the vessel to reduce its cylinder oil consumption.

The ship's crew was trained on oil sampling procedures, piston underside inspection and collecting the necessary data. If cylinder



liner conditions are carefully monitored through the total iron content in the used oil, the lubricant feed rate can safely be reduced.

Performance monitoring is done continuously using the Shell LubeMonitor service to find the lowest possible feed rate and optimum wear rate combination for the vessel's engine to enable optimisation of the cylinder lubricant feed rate. As a result, the vessel's oil consumption was safely reduced from 160 to 96 l/d.

With Shell LubeMonitor, PT SPIL has successfully reduced the *SPIL Hasya's* lubricant consumption. It reports savings on lubrication costs of about US\$18,760 a year for the vessel.¹ This is the second PT SPIL vessel that has successfully managed to reduce its feed rate through the Shell LubeMonitor programme.

1

CHALLENGE

PT SPIL wanted to optimise the container ship *SPIL Hasya's* consumption of Shell Alexia 50 cylinder oil and to cut its lubrication costs without compromising on engine protection.

2

SOLUTION

PT CMM, with the Shell Marine team, suggested that a feed-rate optimisation programme and cylinder condition monitoring through the Shell LubeMonitor service would help the vessel to reduce its cylinder oil consumption.

3

OUTCOME

The Shell LubeMonitor service was used to enable optimisation of the cylinder lubricant feed rate and to reduce the oil consumption safely from 160 to 96 l/d.

4

VALUE

Using the Shell LubeMonitor service, PT SPIL has successfully reduced *SPIL Hasya's* lubricant consumption. It reports **savings on lubrication costs of about US\$18,760 a year for the vessel.**¹

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SHELL SERVICE

Shell LubeMonitor

A service designed to monitor two- and four-stroke marine engine performance. It includes access to Shell tools and advice to help you strike and maintain an acceptable balance between oil costs and maintenance expenses.

Shell LubeAnalyst

A flexible used-oil laboratory analysis service designed to save you time and money on maintenance resulting from equipment failure. This early-warning system aims to give you peace of mind that your equipment and lubricants are in optimum working order.

Shell LubeAdvisor

This on-site support from a global team of field-based engineers includes lubrication surveys, vessel assessments, and in-depth technical and applications support when required. Back-up support is provided by telephone, fax or email.

SHELL ALEXA

Shell Alexia

A portfolio of products designed to meet the needs of low-speed, two-stroke engines. Shell Alexia comes with a range of base numbers suitable with any engine, fuel choices or operating conditions.

