NEPTUNUS
The Machine Reliability Expert

Neptunus' Engine Condition Monitoring System assisted in fault finding to extend major overhaul which otherwise costs ~$2,50,000 for 7 vessels

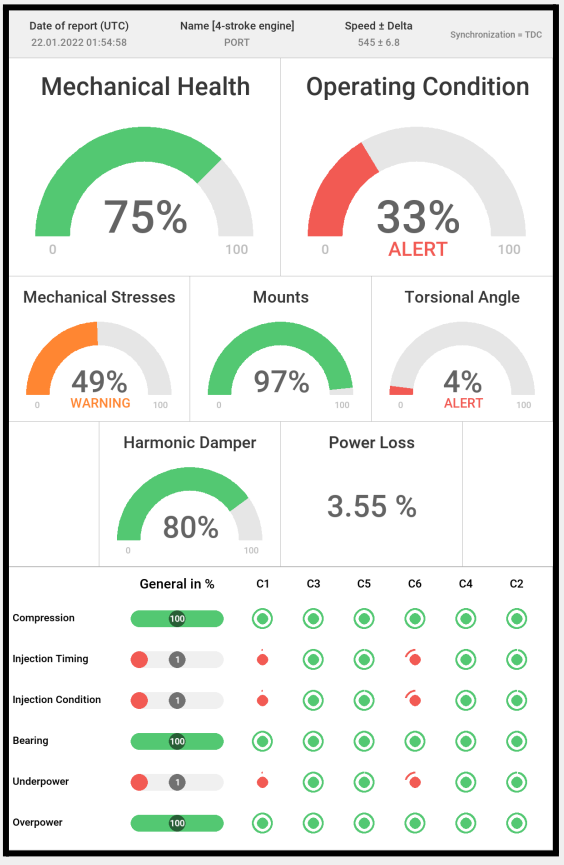
INDUSTRY SEGMENT:	Marine
CUSTOMER:	Harbour Tug operator in India
EQUIPMENT:	Niigat make diesel engines
ARM SOLUTION:	Engine Condition Monitoring

CHALLENGE

- 7 vessels were due for a major overhaul as per OEM's maintenance cycle at 24,000 running hours which would have cost the customer $2,50,000
- Along with the cost this major overhaul would have cost the customer about 18-20 days of downtime for each vessel, resulting in loss of revenue
- The life-cycle of each vessel is around 20 years, approximately 65,000 running hours, meaning 2 MOH have to be performed for each vessel before it's scrapped.

SOLUTION

- The Customer deployed Neptunus' **engine condition monitoring system** (part of Neptunus' **Asset Reliability Management** solution) on all 14 engines of their 7 tugs for an engine health checkup which was already above 24,000 running hours
- Neptunus did the engine health check without opening up the engine and with the help of **2 sensors only we submitted a conclusive report which indicated to replacing only 2 injectors on a couple of their tugs and they can run further without a major overhaul**
- This helped the customer make a **confident data-backed decision, replace only the required parts and extend the major overhaul**
- **With the extension of 1st MOH, the customer is able to eliminate 2nd MOH in life-cycle of these vessels**



BENEFITS

- Customer was able to see **in-depth report cylinder-specific, do the necessary scope needed at bare minimum cost**
- With this approach, the customer is able to **eliminate 2nd MOH thus resulting in huge savings of $1,00,000 for each vessels**