

DIESEL ENGINE HEALTH MONITORING INSPECTION (DEHMI) – MAIN ENGINES

1. Status of Documents and Engine Data.

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>REMARKS</u>
(a)	Diesel Service Log Book			
(b)	EMAPS/ Kalamazoo			
(c)	Running Log Book			
(d)	Engine Serial No.			
(e)	Running Hours since installation			

2. External State of Engine.

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>REMARKS</u>
(a)	Condition of durites/ compensators			
(b)	Condition of SV mounts & application of Necol Lacquer			
(c)	System Pipelines well supported and free of leaks			
(d)	Filter Drains clear			
(e)	Status of bilge platform in the immediate of vicinity of engine			

3. Status of Air Intake.

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>REMARKS</u>
(a)	Cleanliness of air intake filter			
(b)	Perforated sheet for corrosion and intactness of securing (where applicable)			
(c)	Cleanliness of air intake trunking			
(d)	Intake drain clear			
(e)	Air Intake restriction measuring instrument			
(f)	Status of Vacuum Indicators			
(g)	Status of durites/ compensators			

4. **Status of Exhaust System.**

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>REMARKS</u>
(a)	Securing of exhaust trunking supports and load hangers			
(b)	Intactness of hot tagging			
(c)	Status of corrosion on exhaust funnel/flap/ball valve			
(d)	Condition of Exhaust drain pipeline			
(e)	Intactness of exhaust trunking			
(f)	Exhaust back pressure measuring point accessible			

5. **Starting Air System.**

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>REMARKS</u>
(a)	Condition of durites/ braided hoses			
(b)	Status of air starting valve			
(c)	Working of auto/ manual drain valve of air compressor			

6. **Fuel System.**

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>REMARKS</u>
(a)	Condition of fuel filters			
(b)	Status of fuel centrifuge			
(c)	Fuel leakages			
(d)	Condition of wire-braided hoses			

7. **Lub Oil System.**

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>REMARKS</u>
(a)	Outcome of last lub oil analysis			
	Basic			
	Advanced			
(b)	Status of lub oil Centrifuge			
(c)	Oil leakages			
(d)	Date of last cooler cleaning			
(e)	Status of durites/ compensators			
(f)	Lub Oil Test Kit status			

8. **Coolant/ Fresh Water System.**

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>REMARKS</u>
(a)	Outcome of last coolant analysis			
(b)	Condition of Gauge glass of expansion tank			
(c)	Status of Coolant system			
(d)	Date of last cooler cleaning			
(e)	Coolant Test Kit status			

9. **Sea Water System**

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>REMARKS</u>
(a)	Status of sea water system			
(b)	Condition of durites/ compensator			
(c)	Status of suction Strainer			
(d)	Status of Zinc plugs			

10. **Tappet Clearance Check.**

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>REMARKS</u>
(a)	Intake Valve (limit :0.2)			
(b)	Exhaust Valve (limit :0.5)			

11. **Instrumentation & Control Check**

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>REMARKS</u>
(a)	Insulation of control system panels			
(b)	Status of calibration of all instrumentation			
(c)	Status of thermometer/ thermocouples/ pressure sensors			
(d)	Thermometer- Total Non-Ops			
(e)	Thermocouples - Total Non-ops			
(f)	Pressure gauge - Total Non-ops			
(g)	Number of faulty Alarms/ Relays			
(h)	Blowby measurement tool/ provision			

12. **Ventilation System**

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>REMARKS</u>
(a)	Status of compartment Ventilation			
(b)	Average compartment Temperature at four corners/			

	Ambient air temperature			
(c)	Status of compartment/ bilge coolers			
(d)	Date of last cooler cleaning			
	(i) Compartment cooler			
	(ii) Bilge cooler			

13. **Fire Fighting System**

<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>REMARKS</u>
Status of machinery compartment firefighting system			

14. **Performance Trials Details**

<u>S. No</u>	<u>CHECK</u>	<u>STBD</u>	<u>PORT</u>	<u>REMARKS</u>
(a)	Max ERPM achieved during CST			
(b)	Max ship's speed achieved during CST			
(c)	Max ERPM achieved during last			
(d)	Max ships speed achieved during last FPT			
(e)	Max torsion meter readings			
(f)	Present status of Torsion meter			
(g)	Date of last SDC			