

DIESEL ENGINE HEALTH MONITORING INSPECTION (DEHMI)

1. Status of Documents and Engine Data.

<u>S. No</u>	<u>CHECK</u>	<u>DA1</u>	<u>DA2</u>	<u>DA3</u>	<u>DA4</u>	<u>REMARKS</u>	<u>FILLING INSTRUCTIONS</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>DA1</u>	<u>DA2</u>	<u>DA3</u>	<u>DA4</u>	<u>REMARKS</u>	<u>FILLING INSTRUCTIONS</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>DA1</u>	<u>DA2</u>	<u>DA3</u>	<u>DA4</u>	<u>REMARKS</u>	<u>FILLING INSTRUCTIONS</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>DA1</u>	<u>DA2</u>	<u>DA3</u>	<u>DA4</u>	<u>REMARKS</u>	<u>FILLING INSTRUCTIONS</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>DA1</u>	<u>DA2</u>	<u>DA3</u>	<u>DA4</u>	<u>REMARKS</u>	<u>FILLING INSTRUCTIONS</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>DA1</u>	<u>DA2</u>	<u>DA3</u>	<u>DA4</u>	<u>REMARKS</u>	<u>FILLING INSTRUCTIONS</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>DA1</u>	<u>DA2</u>	<u>DA3</u>	<u>DA4</u>	<u>REMARKS</u>	<u>FILLING INSTRUCTIONS</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>DA1</u>	<u>DA2</u>	<u>DA3</u>	<u>DA4</u>	<u>REMARKS</u>	<u>FILLING INSTRUCTIONS</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>DA1</u>	<u>DA2</u>	<u>DA3</u>	<u>DA4</u>	<u>REMARKS</u>	<u>FILLING INSTRUCTIONS</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>DA1</u>	<u>DA2</u>	<u>DA3</u>	<u>DA4</u>	<u>REMARKS</u>	<u>FILLING INSTRUCTIONS</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>DA1</u>	<u>DA2</u>	<u>DA3</u>	<u>DA4</u>	<u>REMARKS</u>	<u>FILLING INSTRUCTIONS</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>DA1</u>	<u>DA2</u>	<u>DA3</u>	<u>DA4</u>	<u>REMARKS</u>	<u>FILLING INSTRUCTIONS</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>DA1</u>	<u>DA2</u>	<u>DA3</u>	<u>DA4</u>	<u>REMARKS</u>	<u>FILLING INSTRUCTIONS</u>
Status of machinery compartment firefighting system						

14. **Performance Trials Details**

<u>S. No</u>	<u>CHECK</u>	<u>DA</u>	<u>DA</u>	<u>DA</u>	<u>DA</u>	<u>REMARKS</u>	<u>FILLING INSTRUCTIONS</u>
(a)	Max load achieved during CST						
(g)	Date of last SDC						