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सम्मिश्र जांच दल/ Composite Trials Team
द्वारा नेवी कार्यालय/ C/o Navy Office
मुख्यालय/ Headquarter
अन्डमान एवं निकोबार कमान/
Andaman & Nicobar Command
पोर्ट ब्लेयर/ Port Blair - 744 102

CTT/300/03/09/TECH

07 Jun 23

The Commander-in-Chief
{for CTO (Marine)}
Headquarters
Andaman & Nicobar Command
Port Blair - 744 102

RUNNING HOUR EXTENSION TRIALS OF DA NO. 3 (350 KW) - /N LCU L51

1. Refer to HQANC Fax ANC/42002/EG/9/2 dated 05 Jun 23.
2. **Background.** Running hour extension trials of DA No 3 onboard /N LCU L-51 including Performance, SDC, Vibration and Attenuation checks were undertaken on 05 Jun 23. Detailed report of the same is placed at **Enclosure**.
3. **Performance Parameters.** The salient parameters are as follows: -

Ser	Parameter	Range	Value recorded	Remarks
(a)	Lub Oil Presssure	3.5 – 5.0 bar	4.0	SAT
(b)	Lub Oil Temperature	45 – 95 °C	91°C	
(c)	Fresh Water Temperature	55 – 90 °C	87°C	
(d)	Exhaust Temperature	575 °C	540°C	

4. **Vibration Analysis.** Vibration trials were undertaken at 60% and 100% of rated load and found SAT.
5. **Observations.**
 - (a) Minor lub oil leakage from gear mechanism of engine free end side.
 - (b) Alternator foundation cover not secured.
 - (c) Instrumetation cables not secured.

6. **Recommendations.** Following recommended:-

- (a) Liquidation of defects/ observations mentioned at para 5 ibid.
- (b) RH extension may be accorded for exploitation up to 100% of rated load with close monitoring of all critical parameters.



(एस सी विलियम/ S C William)
कमांडर/ Commander
प्रभारी अधिकारी/ Officer-in-Charge

Encl : - As above

Copy to : -

The Commodore Superintendent
{for DGM(Refit)}
Naval Ship Repair Yard
C/o Navy Office
Port Blair - 744 102

The Naval Component Commander
{for SSO (TECH)}
c/o Navy Office
Port Blair - 744 102

The Commanding Officer
/N LCU L51
c/o Navy Office
Port Blair - 744 102

RUNNING HOUR EXTENSION OF DA NO. 3 (350 KW) - /N LCU L51

1. Trial Inspector : (a) Jitendra, ERA-3
(b) Sanjay, LME
2. Date and Time : 05 Jun 23 (1600-2015 Hrs)
3. Equipment used for trials : (a) SPM T-30
(b) Temperature Gun
4. Details of trials are as follows:-

(a) **Safety Device Checks.**

Ser.	Description	Unit	Design Value	DA 3 (350 kW)
(i)	Low LO Pr Alarm	Kg/cm ²	1.2	1.2
(ii)	Low LO Pr Trip	Kg/cm ²	0.8	0.8
(iii)	High FW temp Alarm	°C	91	91
(iv)	High FW temp Trip	°C	96	96
(v)	High LO temp Trip	°C	130	130
(vi)	High LO temp Alarm	°C	120	119
(vii)	High Exhaust temp. Alarm	°C	575	575
(viii)	Over speed Trip	RPM	1650	1650
(ix)	Crash stop Local	--	Ops/ Non-ops	Ops
(x)	Crash stop Remote	--	Ops/ Non-ops	Ops

(b) **Performance Parameters at 60% Load and 100% Load.**

Ser.	Description	Unit	Parameters recorded at 210 kW (60% rated load)	Parameters recorded at 350 kW (100% rated load)
			350 KW DA	350 KW DA
(i)	Max sustained Load	kW	210	350
(ii)	RPM	RPM	1499	1495
(iii)	Lub oil Pressure	Kg/cm ²	4.2	4.0

Positions	350 kW (100 % load)							
	1	2	3	4	5	6	7	8
Top	15.2	9.3	9.0	8.4	9.1	5.7	67	15.2
Bottom	4.0	0.4	1.7	2.2	0.6	1.0	0.4	4.3
Atten. %	73.68	95.69	81.11	73.80	93.40	82.45	94.02	72.0
Remarks	SAT							

(e) **SPM Readings.**

Ser.	Description	0 % Load dbm/ dbc	60 % Load dbm/ dbc	100 % Load dbm/ dbc	REMARKS
(i)	Alternator Drive End	11/2	14/2	17/4	SAT
(ii)	Alternator Free End	17/7	20/9	19/8	SAT