



5-0448-01

4/7252/2

MOD'N

В

ISSUE DRAWN

NOTES!

SHAFT STIFFNESS:-

THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE \clip{C} AND SHAFT EXTENSION ¢ IS 65,179 x 10 kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)

SHAFT MATERIAL:-

STEEL - C40E TO BSEN 10083-2 2006 (APPROVED BY MARINE AUTHORITIES WHEN APPROPRIATE)

MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS 34.47 X $10^6\,\mathrm{N/m}$? FOR SPEED RANGE OF 0.95 TO 1.1 X NOMINAL SPEED AND 68.94 X 6 10 N/m? FOR RUN THROUGH CONDITIONS, FOR INDUSTRIAL MACHINES. FOR MARINE AUTHORITIES, THEIR APPROPRIATE RULES WILL APPLY.

CUMMINS GENERATOR TECHNOLOGIES LTD SHOULD BE NOTIFIED OF ANY ROTORS NOT COMPLYING WITH THESE RULES. CUMMINS GENERATOR TECHNOLOGIES LTD BALANCE ROTORS TO COMPLY WITH INTERNATIONAL STD BS ISO 1940 PARTS 1 ND 2. BALANCE GRADE 2.5

THOR UNBALANCED MAGNETIC PULL (U.M.P.) REFER TO THE FACTORY.

COMPONENT	Wt kg	WR² kgm²
EX.ROTOR	46,791	0,7758
MAIN ROTOR	729,193	28,3983
FAN	28,800	1,6520
SHAFT	263,852	0,9035
P.MAG.ROTOR	6,970	0,0190
STUB SHAFT	0,929	0,0003
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TOTAL	1076,535	31,7489

CONVERSION FACTORS					
TO CONVERT	ТО	DIVIDE BY			
kg	lb	0,453592			
kg m²	lb ft²	0,04214			
kgcm/rad	lbin/rad	1,1521246			
N/m^2	lbf/in²	6894,76			

		P7A TWO BEARING	SCALE FIRST W.O.
La contraction of the contractio	(ONLY IF SIGNED) BY	MOMENTS OF INERTIA AND SHAFT DETAILS	NTS UNIT OF MEASUREMENT
	DATE	AND SHALL DETAILS	(SHEET 1:10) MILLIMETRES (mm)
AJB 02.02.10 CHANGES TO STEEL SPECIFICATION; STANDARDS REFERENCES. CHANGE OF COMPANY NAME.	DRAWN AMH 27.4.04	CUMMINS GENERATOR	ISSUE
AMH 27.4.04 ORIGINAL ISSUE	CHECK AJB 02.02.10		15-12974
DRAWN DATE ALTERATION	APPR'D JKB 02.02.10	TECHNOLOGIES LTD.	