



NOTES!

SHAFT STIFFNESS:-

THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ¢
AND SHAFT EXTENSION ¢ IS 61,015 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 10⁶ 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 PAND 2. BALANCE GRADE 2.5

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

COMPONENT	Wt kg	WR² kgm²
EX.ROTOR	46,791	0,7758
MAIN ROTOR	945,359	36,7607
FAN	28,800	1,6520
SHAFT	292,175	1,0119
P.MAG.ROTOR	6,970	0,0190
STUB SHAFT	0,929	0,0003
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TOTAL	1321,024	40,2197

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				

	CER ⁻	TIFIED PRINT	P7D TWO BFARING	SCALE FIRST W.O.
	(ONL	Y IF SIGNED)		NTS HARLIST MEASUREMENT
5-0448-02 D TW 04.05.10 DRAWING CORRECTED	TO SHOW ISSUE 'B' CHANGES BY		AND CHAET DETAILS	UNIT OF MEASUREMENT
5-0448-01 C AJB 02.02.10 CHANGES TO STEEL SF	PECIFICATION; STANDARDS REFERENCES. CHANGE OF COMPANY NAME. DATE		AND SHALL DETAILS	(SHEET 1:10) MILLIMETRES (mm)
4/6904/1 B D.W 22.09.03 EX ROTOR MTG Ø WA	AS 110 ,MOD WEIGHT AND INERTIA OF SHAFT,E/ROTOR AND TOTAL DRAW	N SMC 11.07.03	CUMMINS GENERATOR	ISSUE
4/6745/9 A SMC 11.07.03 ORIGINAL ISSUE	CHEC	K AJB 04.05.10		15-12903 n
MOD'N ISSUE DRAWN DATE ALTERATION	APPR'	D JKB 04.05.10	TECHNOLOGIES LTD.	