

SECTION 1-1 SECTION 2-2

NOTES!

SHAFT STIFFNESS:-

THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ¢ AND SHAFT EXTENSION ¢ IS 62,828 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	45,791	0,7758
MAIN ROTOR	847,654	32,9794
FAN	28,800	1,6520
SHAFT	263,852	0,9035
P.MAG.ROTOR	6,970	0,0190
STUB SHAFT	0,929	0,0003
_	_	_
TOTAL	1194,996	36,3300

CON	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				

			CERTIFIED PRINT	P7C TWO BEARING	SCALE FIRST W.O.
			(ONLY IF SIGNED)		NITS -
5-0448-02 D	TW	04.05.10 DRAWING CORRECTED TO SHOW ISSUE 'B' CHANGES	BY	AND SHAFT DETAILS	UNIT OF MEASUREMENT
5-0448-01 C	AJB	02.02.10 CHANGES TO STEEL SPECIFICATION; 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 WAS 110 ,MOD WEIGHT AND INERTIA OF SHAFT,E/ROTOR AND TOTAL	DRAWN SMC 11.07.03	CUMMINS GENERATOR	I ISSUE
4/6745/9 A	SMC	11.07.03 ORIGINAL ISSUE	CHECK AJB 04.05.10)	15-12902 n
MOD'N ISSUE	DRAWN	DATE ALTERATION	APPR'D JKB 04.05.10	TECHNOLOGIES LTD.	

SECTION 4-4

SECTION 3-3