

5-0448-01 B 4/6745/9

MOD'N ISSUE DRAWN DATE

NOTES!

SHAFT STIFFNESS:-

THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE  $\clip{C}$ AND SHAFT EXTENSION ¢ IS 69,495 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 AND 2. BALANCE GRADE 2.5

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

COMPONENT	Wt kg	WR² kgm²
EX.ROTOR	62,258	0,9988
MAIN ROTOR	1222,991	47,4835
FAN	28,800	1,6520
SHAFT	331,999	1,1805
P.MAG.ROTOR	6,970	0,0190
STUB SHAFT	0,929	0,0003
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TOTAL	1653,947	51,3341

CON	version fact	ORS
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	P7G TWO BEARING SCALE FIRST W.O.
				(ONLY IF SIGNED)	MOMENTS OF INERTIA   NITS
				DATE DATE	AND SHAFT DETAILS (SHEET 1:10) UNIT OF MEASUREMENT (SHEET 1:10)
	AJB	02.02.10	CHANGES TO STEEL SPECIFICATION; STANDARDS REFERENCES. CHANGE OF COMPANY NAME.	DRAWN SMC 11.07.03	
	SMC	11.07.03	ORIGINAL ISSUE	CHECK AJB 02.02.10	$_{\rm obs}$
Ε	DRAWN	DATE	ALTERATION	APPR'D JKB 02.02.10	TECHNOLOGIES LTD.   L'O 'ZOO'  B