NOTES:

SHAFT STIFFNESS:
THE STIFFNESS OF THE SHAFT BETWEEN THE POINT OF RIGIDITY AND THE SHAFT EXTENSION Ω IS 14.55 x 10^6 Nm/deg

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 N/m² FOR SPEED RANGE OF 0.95 TO 1.1 X NOMINAL SPEED AND 68.94 x 10^6 N/m² 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. ISO 1940 GRADE 2.5 AND BS 6861 PART 1 GRADE 2.5.

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

COMPONENT MASS (kg) M.R. (kgm²)
SHAFT 382.8 3.272
FAN 31.33 3.096
FAN HUB 8.14 0.886
DE BALENCING RING 31.28 2.43
MAIN ROTOR 1669.77 97.827
NOE BALANCE RING 31.28 2.43
FSC ROTOR ASSY 124.87 2.235
PMG ROTOR 6.67 0.099
PMG STUB SHAFT 0.93 0.0003
TOTAL 2520.07 112.1974

CONVERSION FACTORS

<table>
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<th>TO CONVERT</th>
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<tbody>
<tr>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td>0.453592</td>
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</tr>
<tr>
<td>kg m²</td>
<td>lb ft²</td>
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<td>0.004489</td>
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<tr>
<td>Nm/deg</td>
<td>lbf in/deg</td>
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<tr>
<td>N/m²</td>
<td>lbf in²</td>
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<td>6894.76</td>
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CUMMINS GENERATOR TECHNOLOGIES
MOMENTS OF INERTIA PRG 2W

CUMMINS GENERATOR TECHNOLOGIES LTD
DRAUGHTING ENGINEERING

WANTED SHEET: 13A5

CUMMINS GENERATOR TECHNOLOGIES LTD
R.C. MILL
APPROVED A. SAVILL
DATE 16.04.04

N/A STA L18-10577