



# ELECON ENGINEERING COMPANY LIMITED

(GEAR DIVISION)

VALLABH VIDYANAGAR - 388 120.

Date:12/10/11

Test Observations :-

Gear Box : PD-14-R11-V-12-R31.5:1-Z0

Sr. No. : 712333

Order No. : GCSHDL5 - 971/1

A) OIL - MP-EP-G0100 (Fresh Party's Oil)

Ambient Temp. : 36.4 ° C  
I/P Brg. Temp. : 44.5° C  
O/P Brg. Temp. : 42.6° C  
Body Temp. : 42.5° C  
Oil Temp : 43.5 ° C  
Duration : 04 Hours  
Oil Quantity : 06 Liters  
I/P RPM : 1530

B) Trial with SP 320 oil (Elecon Used Oil)

Ambient Temp. : 35° C  
I/P Brg. Temp. : 48° C  
O/P Brg. Temp. : 45° C  
Body Temp. : 45° C  
Oil Temp : 47 ° C  
Duration : 03 Hours  
Oil Quantity : 06 Liters  
I/P RPM : 1530

FOR ELECON ENGINEERING CO. L

QUALITY CONTROL DEPARTMENT

Conclusions :

1. Dirghayu MP-EP-GO100 performs similar / better as compared with TASHOIL SP320.
2. Viscosity of MP-EP-GO100 is 68 cst as compared with TASHOIL SP320 is 320 cst.
3. Besides of difference in viscosity MP-EP-GO100 performs better than TASHOIL SP320.
4. MP-EP-GO100 performs better since it has viscosity index 205 as compared with TASHOIL SP320, which has viscosity index 95.
5. MP-EP-GO100 can be considered for use in EP Series heliacal Gear Boxes.
- 6.

Next Steps :

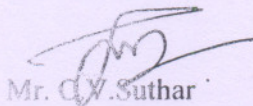
1. Tests to be carried for Torque measurement ( Input Torque, Output Torque )
2. As per Intech's observations Energy Savings can be achieved by using MP-EP-GO100.
3. Energy Saving can be measured by putting lower HP motor & using MP-EP-GO100 for a fixed load.
4. Upto 15 % power saving is expected, which can be achieved by putting 17 HP motor in place of 20 HP motor & using MP-EP-GO100.

For Elecon, Anand

Mr. R. Megha

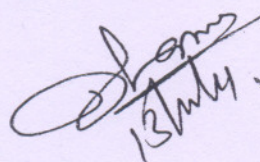


Mr. K.S. Dalwari



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Mr. Ashok Khaswani

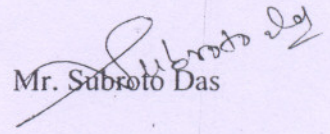


Mr. Ashok Khaswani

For Intech, Pune

~~Mr. Shridhar Bendke~~  
Mr. Shridhar Bendke

Mr. Subroto Das



Mr. Subroto Das

Date : 13/11/2011  
Anand, Gujarat