



# DUO CONE SEAL LIFE TEST REPORT

REPORT NO/SAP/SLTR/005  
DATE:-14/10/2011

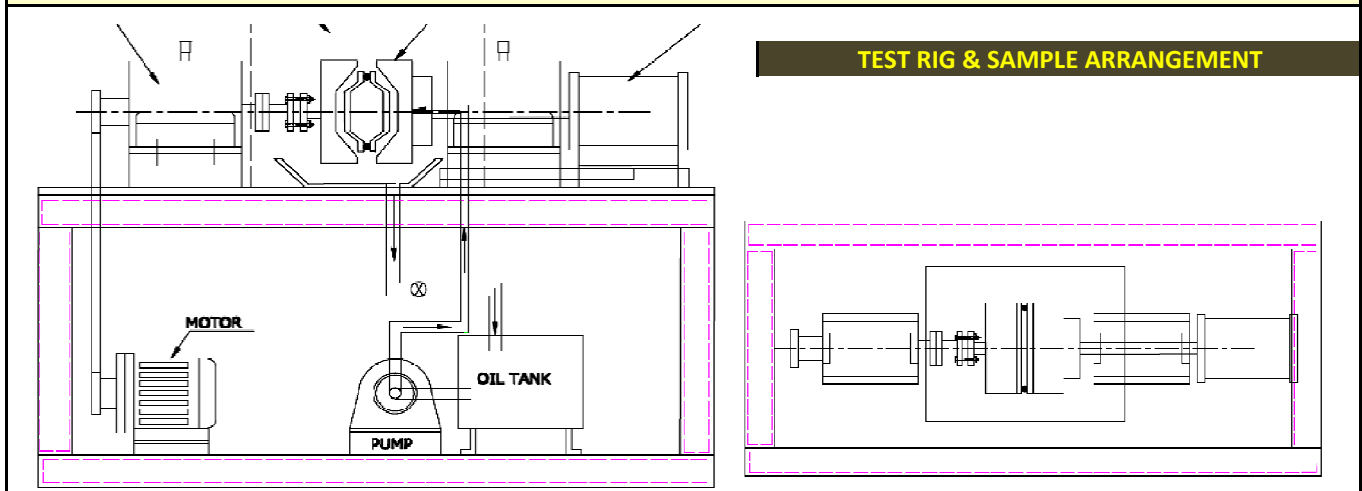
<b>TEST METHOD:</b>	ACCELERATED ENDURANCE TEST FOR -	<b>SAMPLE REF /DRG NO.</b>
	1) DETERMINATION OF SEAL LIFE	DUO CONE SEAL # SAP-82.5x63.5x16
	2) OIL LEAKAGE	<b>CUSTOMER NAME :</b>
<b>TEST MACHINE:</b>	SAP : TEST RIG SYSTEM FOR DUO CONE SEAL OIL LEAKAGE & LIFE ESTIMATION	

## SEAL LIFE AND LEAKAGE TEST RIG SYSTEM - SET UP CONDITIONS

TEST MACHINE PARAMETERS		TEST SAMPLE PARAMETERS	
TEST SAMPLE RANGE	φ(50 ~ 350 MM)	OD mm	82.50
MAX.MOTOR SPEED	4000 RPM	ID mm	63.50
LINEAR SPEED RANGE	(0 ~ 73 ) M/s	FACE WIDTH	9.50 mm
MAX.LOAD	5 Kg/cm <sup>2</sup>	LAP BAND WIDTH	3.00 mm
HEATER TEMP.	150°C MAX	THRUST LOAD GIVEN	2.00 Kg/cm <sup>2</sup>
		MAX.FACE LOAD	7.63 Kgf

ABSTRACT OF RECORD			SETTINGS		READINGS		
Endurance & Leakage TEST	Time dd/mm/yyyy-hh:mm	Hrs	Linear Speed in M/	RPM SET	Equipment Indicated Face Load Kgf	Indicated Temp °C	Band Width 'S' in mm
Start	Normal Conditions	29/07/2011	500	2.2	510	7.2	100
		31/08/2011					
* TEST INTERVALS 18 HRS/DAY	In Kantolome	31/08/2011	200	2.2	510	7	100
	Normal Conditions	13/09/2011	300	2.2	510	6.8	100
		13/09/2011					
Stop	Conditions	2/10/2011 0:00					4.5
	<b>TEST PERIOD</b>	<b>1000</b>				<b>% Wear</b>	<b>33.3%</b>

\* TEST CONDUCT- SCHEDULE SEE OVERLEAF



ACCEPTANCE CRITERIA		OBSERVATIONS	REMARK
LEAKAGE	NO OIL LEAKAGE	No Leakage Found	Seal has qualified the endurance test and leakage test limited for the standard test conditions as above and shown no significant deviation in acceptance criteria under trial of 1000 hrs.
MAX.FACE LOAD	7.63 Kgf	7.2	
MIN.FACE LOAD	5.34 Kgf	6.8	
MAX.BAND WIDTH	5.10 mm	4.5	
SEAL FACE VISUAL	NO BURNING/NO PITTING	OK	