

PdM Solutions of San Antonio, Inc

Vibration analysis, Thermal imaging, oil analysis, laser alignment
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Vibration Analysis Cover Sheet

1. Machinery Information.

Plant	XXXXXXX	Location.	San Antonio, TX
Contract No.	XXXXXXX	Date	XXXXXX
Unit ID#	HS#4 600HP	Refrigerant	NH3
Compressor Model	RECO/Mycom 250LUD-MX S/N:XXXXXXX		
Suction Press/temp.	23.5 psig / 0 F	Discharge Press/temp	165 psig/ 169 F
Type of Oil Cooling	TSOC	Oil Press/temp.	33.5 psig/ 102 F
Oil Injection	100 %	Compressor Load	100 %
Type of Oil	FES #1	Compressor Vi	3.6
Compressor Run Hour	36540(Run 278 Hrs)	Compressor speed	3550
Driven by	Motor	Driver Gear	N/A
Pinion Gear	N/A	Motor manufacturer	XXXXXX
Motor BHP	600 HP	Motor S/N	XXXXXX
Motor Bearing-Drive	6316C3	Motor Bearing-Open	6316C3
Service History	6/15/99:Changed motor bearings at 18053 hrs. 9/5/00:Replace motor to Toshiba. 10/22/01:Alignment check done by PdM Solutions. 11/12/2004:Alignment check by PdM Solution.		
Data Taken by	XXX/PdM Solutions	Data Analyses by	XXX/PdM Solutions

2. Result

	Result	Comment
Compressor		Thrust bearing defects detected. See note below
Motor		
Alignment		

Note:

- Normal
- Close monitor
- Abnormal
- Critical

- Normal operation
- Show sign of internal problems.
- Problem progressed. Prepare for service
- Need immediate service.

Note

Compressor's thrust bearing damage detected. It is probably outer race. Recommendation should be made to prepare for service. Expect bearing life left +/- 6 months.
Also high vibration existed on the compressor's discharge piping due to installation stress.

3. Recommendation

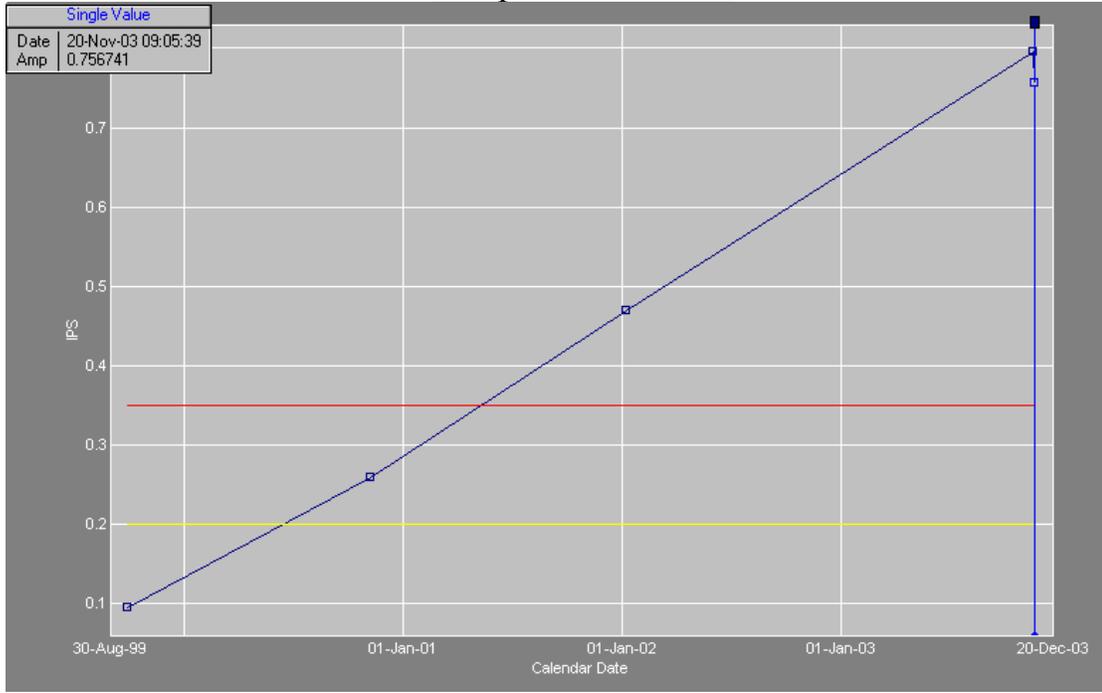
Prepare for compressor service (Thrust bearing replacement.)

4. Attachmenmt

- A) Last measurement report
- B) Vibration trend (Acceleration) at discharge bearing heads (male and female rotor side)

5. Next Inspection. In (6) months, Oct 2006

Sample Trend Chart



Sample Spectrum

