



# CONDITION REPORT

Equipment Specific Analysis

**Trico Corporation**  
1235 Hickory Street  
Pewaukee, WI 53072  
Phone: 800.558.7008  
Fax: 262.691.2576

**Ticona Polymers Inc**  
Bishop, TX  
Boilerhouse-Cogen

**NORMAL**

ECR	LCR
NORMAL	NORMAL

LOCATION ID: HCCPB-UT-PT-1861  
DESCRIPTION: GE Oil Reservoir  
COMPONENT: Turbine/Dual Axial  
LUBRICANT: Chevron GST 32  
RESERV. CAP: 2000 Gallons  
LUBE TIME: Not Provided  
TEST SUITE: H002

MACH HRS: Not Provided

SAMPLE DATE: 04/16/2014  
REC'D DATE: 04/18/2014  
REPORT DATE: 4/23/2014  
SPID #: 29660  
CNTL #: 5121826  
ANALYST: Loede  
BATCH #: T140418-012

## Analyst Summary:

Routine results were obtained for this sample. The lubricant condition is acceptable.

## REPORT RATINGS:

Sample Date	10/08/2013	11/05/2013	12/10/2013	01/09/2014	02/13/2014	03/04/2014	04/16/2014
Ratings	Normal	Normal	Normal	Normal	Normal	Normal	Normal

## PHYSICAL/CHEMICAL PROPERTIES:

Visc 40C, cSt	30.94	30.84	31.14	31.19	31.41	31.41	31.50
Visc 100C, cSt							

10/14/2013	Limits	
Lubricant Reference	Lower Limit	Upper Limit
30.45	25.60*	41.60*
6.62	5.22*	6.96*

								Alert	Alarm
Viscosity Index								183	
Color									
Crackle, Water	N	N	N	N	N	N	N	N	
Crackle, Refridg.	N	N	N	N	N	N	N	N	
Water(KF), ppm				24	28	37	29	37	
Water(%)				0.002	0.003	0.004	0.003	0.004	
Water(FTIR), abs				4.0	5.0	6.0	4.0	4.0	
Oxidation(abs)				4.0	3.0	4.0	4.0	4.0	
Nitration(abs)				2.000	2.000	2.000	2.000	2.000	
TAN(mg KOH)	0.036	0.065	0.029	0.111	0.018	0.049	0.010	0.014	
TBN(mg KOH)									
** RPVOT (Minutes)									
Clear									
Bright									

## PARTICULATES:

ISO 4406 PC								Alert	Alarm
DR Trend	4.6	2.4	5.4	9.3	7.2	1.0	4.8		
DL	3.0	1.6	4.2	8.1	6.4	0.8	3.0		
DS	1.6	0.8	1.2	1.2	0.8	0.2	1.8		
Soot				0.0	0.0	0.0	0.0	0.0	

15/14/12	Alert	Alarm

## TRACE ELEMENTS:

								Alert	Alarm	
Equipment	Iron	12	0	0	0	0	0	0		
	Chromium	2	0	0	0	0	0	0		
	Aluminum	0	0	0	0	0	1	0		
	Copper	1	1	1	2	2	1	1		
	Lead	0	0	0	0	0	0	0		
	Tin	0	0	0	0	0	0	0		
	Silver	0	0	0	0	0	0	0		
	Nickel	1	0	0	0	0	0	0		
	Silicon	1	0	0	0	0	0	0		
	Sodium	0	0	0	0	0	0	0		
	Potassium	1	0	0	3	0	5	2		
Contaminants	Boron	0	0	0	0	0	0			
	Molybdenum	0	0	0	0	0	0	0		
	Magnesium	0	0	0	0	0	0	0		
	Calcium	0	0	0	2	1	1	1		
	Barium	0	0	0	0	0	0	0		
	Phosphorus	0	5	5	12	17	11	13		
	Zinc	1	2	2	10	8	7	7		
	Cadmium									
	Additives	Vanadium	0	0	1	0	1	0		
		Titanium	0	0	0	0	0	0		
	Other									



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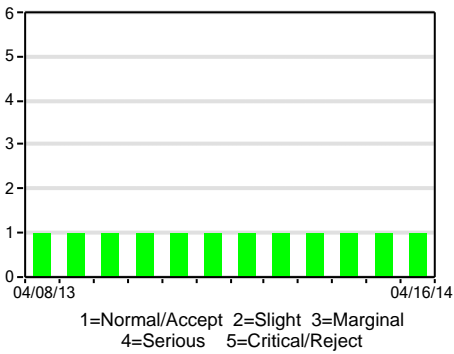
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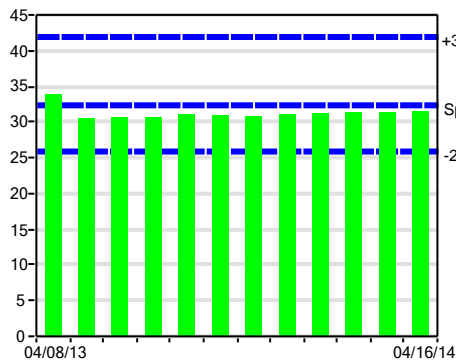
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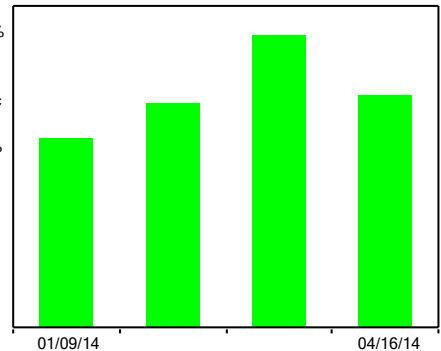
**Rating**



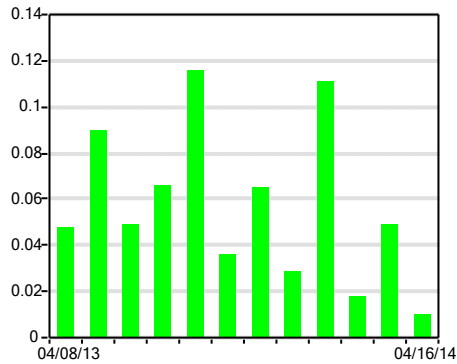
**Viscosity (Spec. 32.0cSt@40C)**



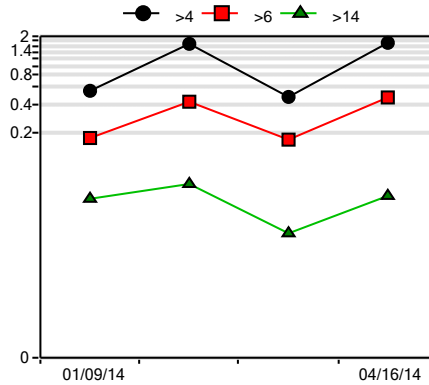
**Water KF**



**Acid No. (mg KOH)**



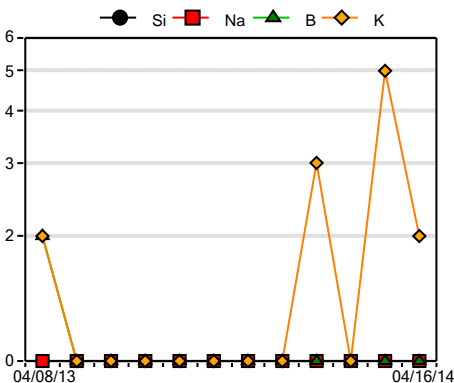
**Particle Count (particles/ml)**



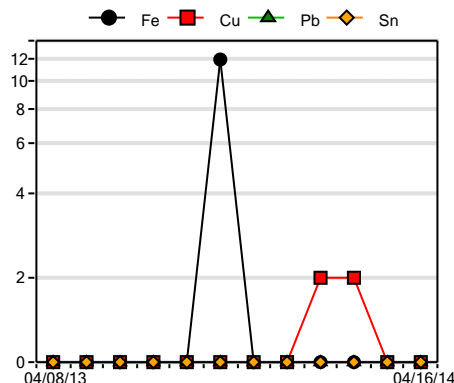
**Particle Count (p/ml)**

Date	01/09/14	02/13/14	03/04/14	04/16/14
ISO PC	16/15/13	18/16/13	16/15/11	18/16/13
>4um	552	1676	478	1717
>6um	181	427	174	471
>14um	43	61	19	46
>21um	18	26	3	16
>38um	2	0	0	0
>70um	0	0	0	0

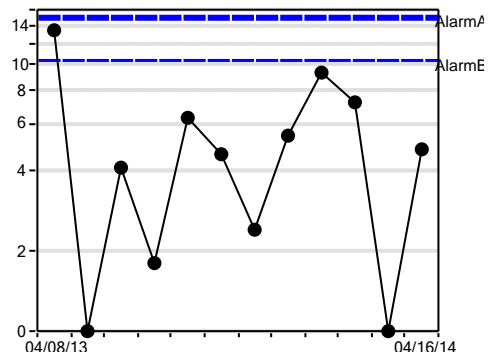
**Contaminants in ppm**



**Wear Metals in ppm**



**Wear Particle Trend**





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## WEAR PARTICLE ANALYSIS:

The Wear Particle Concentration increased from 1.0 to 4.8. Analytical results reveal that there are only small quantities of various contaminants and wear debris in this sample. There are no signs of any serious abnormal wearing in this equipment. No maintenance action is required at this time, therefore continue routine operation.

Wear Particle Analysis indicates routine operation.

## ANALYTICAL RESULTS:

