



CONDITION REPORT

Equipment Specific Analysis

Trico Corporation
 9555 Rockside Rd.
 Suite 350
 Cleveland, OH 44125
 Phone: 800-543-8786
 Fax: 216-642-1484

Any Company
 Cleveland, OH

CRITICAL	
ECR	LCR
MARGINAL	CRITICAL

LOCATION ID: 2 Conv GBX
 DESCRIPTION: BXY
 COMPONENT: Gearcase
 LUBRICANT: Mobilgear 600 XP 320
 RESERV. CAP: 80 Gallons
 LUBE TIME: 0 Hours
 TEST SUITE: ABC

MACH HRS: 0 Hours

SAMPLE DATE: 06/01/2011
 REC'D DATE: 06/06/2011
 REPORT DATE: 06/06/2011
 SPID #: 12345
 CNTL #: 2234567
 ANALYST: Kennedy
 BATCH #: 20110606-25

RECOMMENDATIONS:

This unit will remain at a CRITICAL rating based on the high lead level. Also note the abnormal wear rate and the presence of excess wear debris and contamination. Consider changing the oil in this unit.

REPORT RATINGS:

Sample Date	03/02/2010	07/27/2010	01/07/2011	02/01/2011	03/01/2011	04/03/2011	06/01/2011
Ratings	Marginal	Marginal	Marginal	Critical	Critical	Critical	Critical

PHYSICAL/CHEMICAL PROPERTIES:

	03/02/2010	07/27/2010	01/07/2011	02/01/2011	03/01/2011	04/03/2011	06/01/2011
Visc 40C, cSt	296.39	295.91	309.14	296.53	287.35	295.09	293.86
Visc 100C, cSt							

Lubricant Reference	Limits	
	Out of Range Low	Out of Range High
320.00	256.00	416.00
24.10	21.69	28.92

Alert Alarm

Viscosity Index							
Color							
Crackle, Water	N	N	N	N	N	N	N
Crackle, Refridg.	N	N	N	N	N	N	N
Water(KF), ppm							
Water(%)							
Water(FTIR), abs	6.9	7.2	12.2	7.7	7.9	9.9	9.5
Oxidation(abs)	4.0	3.9	3.1	3.7	3.8	3.9	4.0
Nitration(abs)	3.090	3.511	2.406	3.324	2.433	2.865	2.959
TAN(mg KOH)							
TBN(mg KOH)							
* RPVOT (Minutes)							

PARTICULATES:

	03/02/2010	07/27/2010	01/07/2011	02/01/2011	03/01/2011	04/03/2011	06/01/2011
ISO 4406 PC							
DR Trend	113.3	103.6	370.0	383.0	586.0	210.0	428.0
Soot	0.0	0.0	0.1	0.0	0.0	0.0	0.0

Alert Alarm

TRACE ELEMENTS:

	03/02/2010	07/27/2010	01/07/2011	02/01/2011	03/01/2011	04/03/2011	06/01/2011
Iron	17	22	40	86	62	103	102
Chromium	0	0	1	1	1	1	1
Aluminum	1	1	0	1	0	1	2
Copper	0	0	0	1	0	0	0
Lead	165	187	188	321	242	311	292
Tin	0	0	0	0	0	0	0
Silver	0	0	0	0	0	0	0
Nickel	0	0	0	0	0	1	1
Silicon	7	6	3	9	4	10	9
Sodium	2	3	3	6	5	6	6
Potassium	2	1	0	0	0	0	3
Boron	0	1	0	1	0	1	1
Molybdenum	0	0	0	1	0	0	1
Magnesium	1	1	0	1	1	1	1
Calcium	12	14	12	26	20	23	26
Barium	0	0	6	2	0	6	0
Phosphorus	119	171	202	222	124	295	151
Zinc	2	2	2	2	1	3	2
Cadmium	0	0	0	1	0	1	0
Vanadium	1	0	0	0	0	0	0
Titanium	0	0	0	0	0	0	0

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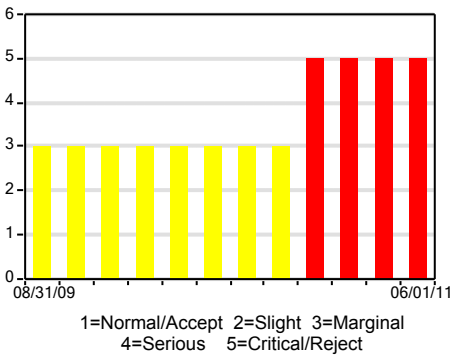
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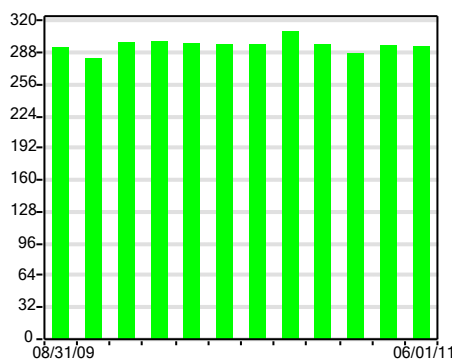
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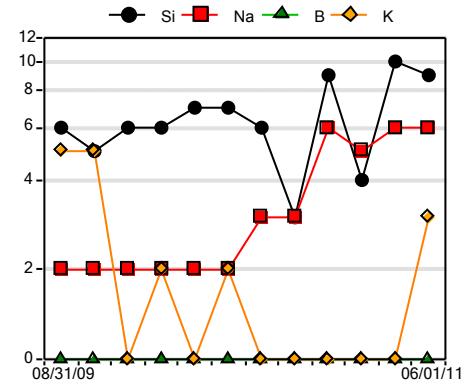
Rating



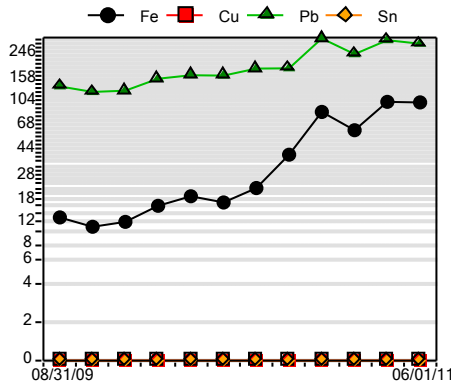
Viscosity (40C)



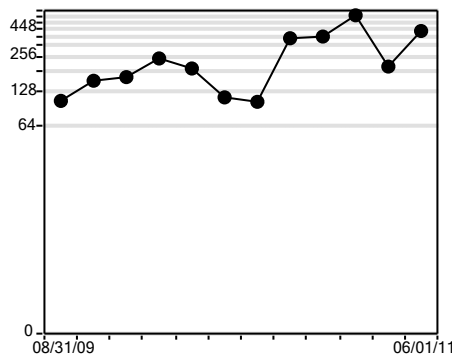
Contaminants in ppm



Wear Metals in ppm



Wear Particle Trend





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WEAR PARTICLE ANALYSIS:

The wear particle concentration increased from 210.0 to 428.0, and is now of concern. The large abnormal wear particles detected in the previous sample are no longer present. However, there are also increased amounts of wear debris, dirt, corrosive wear (oil additive depletion and acidic lubricant), and amorphous residue (degradation) contamination seen in this sample. This unit will remain at a CRITICAL rating based on the high level. Also note the abnormal wear rate and the presence of excess wear debris and contamination. Consider changing the oil in this unit.

ANALYTICAL RESULTS:

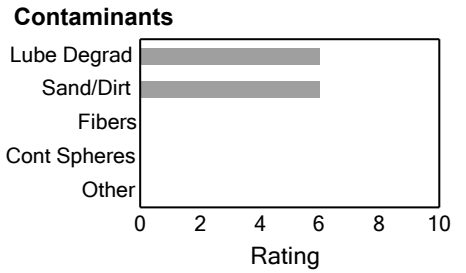
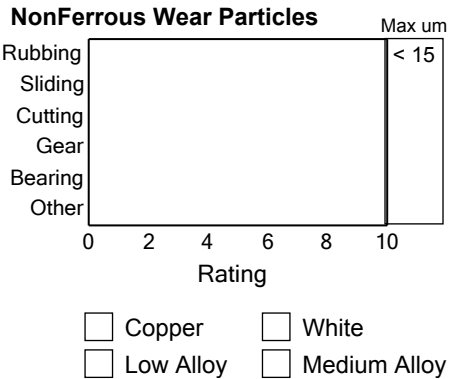
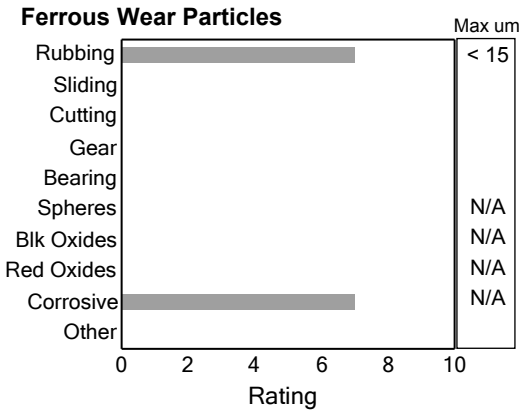


Image # 1 200X



This picture shows the excess steel rubbing wear debris and contamination observed in this sample.