



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area  
**EAST CRANE [13998089]**

Machine Id  
**170831 HOIST**

Component  
**Brake**

Fluid  
**GEAR OIL LS 80W90 (--- GAL)**

## RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

## WEAR

All component wear rates are normal.

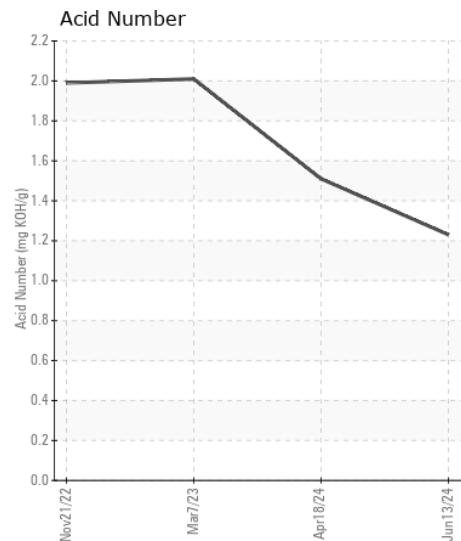
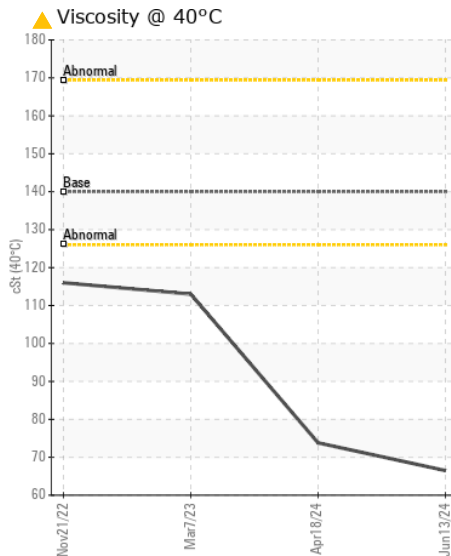
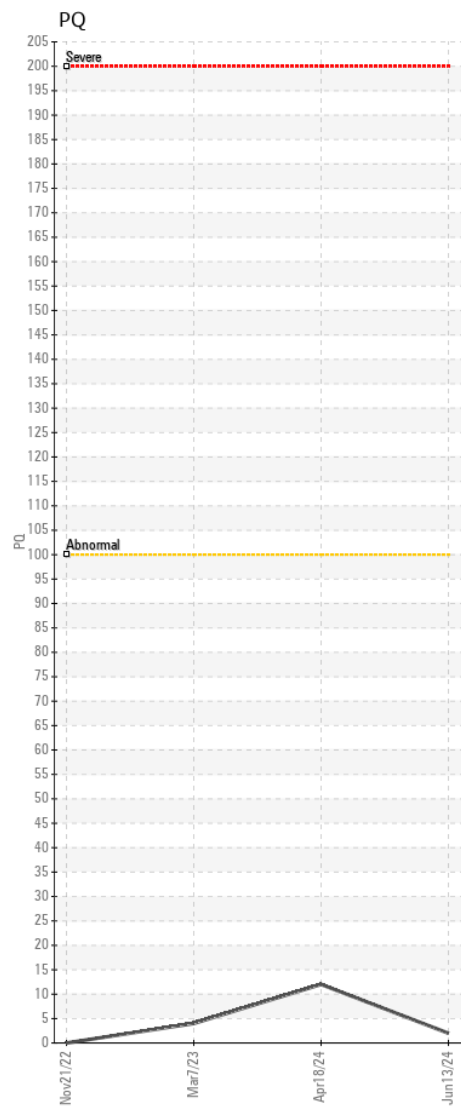
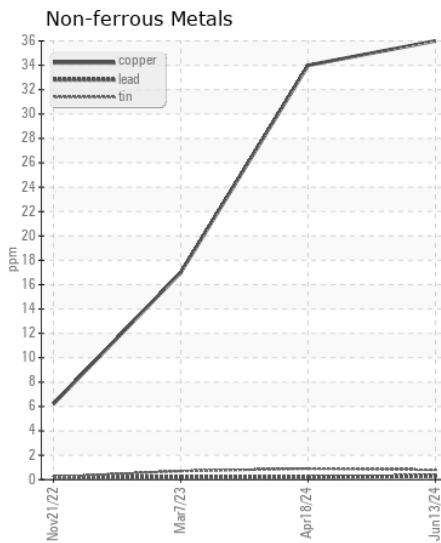
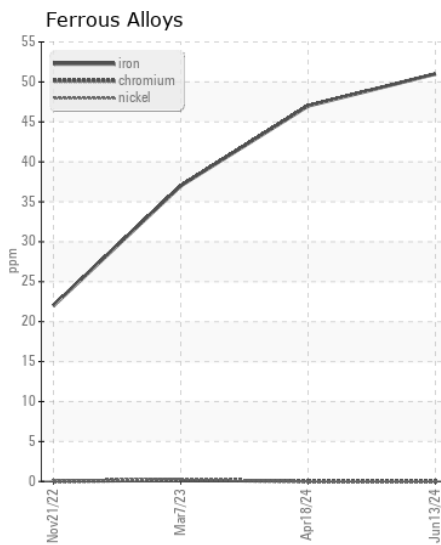
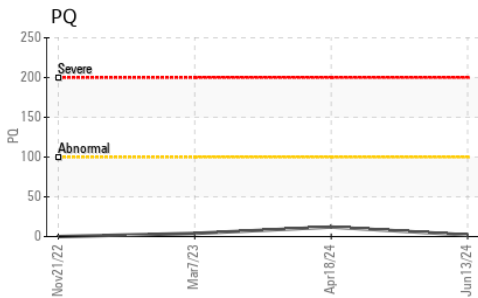
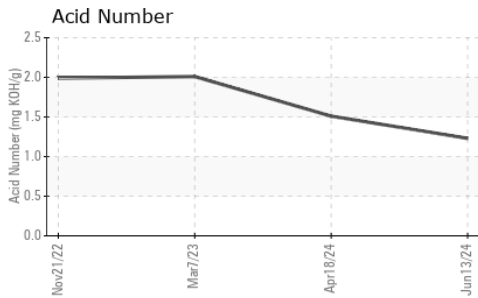
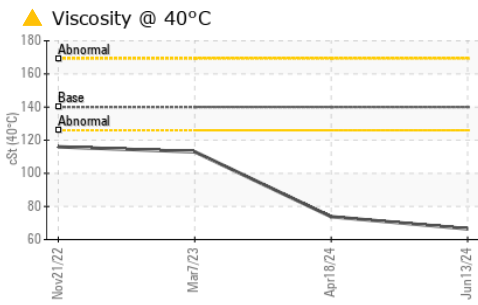
## CONTAMINATION

There is no indication of any contamination in the fluid.

## FLUID CONDITION

Viscosity of sample indicates oil is within SAE 80 range, advise investigate. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PP	PP	PP
Sample Date		Client Info		13 Jun 2024	18 Apr 2024	07 Mar 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
PQ		ASTM D8184*		2	12	4
Iron	ppm	ASTM D5185(m)	>350	51	47	37
Chromium	ppm	ASTM D5185(m)	>5	0	0	<1
Nickel	ppm	ASTM D5185(m)	>5	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>8	0	0	<1
Lead	ppm	ASTM D5185(m)	>10	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>150	36	34	17
Tin	ppm	ASTM D5185(m)	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>400	<1	0	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		1	<1	3
Boron	ppm	ASTM D5185(m)	150	167	193	219
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	10	2	2	20
Calcium	ppm	ASTM D5185(m)	70	8	7	21
Phosphorus	ppm	ASTM D5185(m)	2000	913	1002	1375
Zinc	ppm	ASTM D5185(m)	50	65	46	21
Sulfur	ppm	ASTM D5185(m)	20000	14869	16582	22760
Acid Number (AN)	mg KOH/g	ASTM D974*		1.23	1.51	2.01
Visc @ 40°C	cSt	ASTM D7279(m)	140	66.5	73.8	113



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PP **Received** : 14 Jun 2024  
**Lab Number** : 02642143 **Tested** : 18 Jun 2024  
**Unique Number** : 5799682 **Diagnosed** : 18 Jun 2024 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**HIBERNIA MGMT & DEVELOPMENT CO. LTD**  
 SUITE 1000,, 100 NEW GOWER STREET  
 ST.JOHN'S, NL  
 CA A1C 6K3  
 Contact: Sam Nash  
 samantha.m.nash@exxonmobil.com  
 T:  
 F: (709)722-3766

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.