



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**LIEBHERR LH40M 116354-1215**

Component  
**Swing Drive**

Fluid  
**PETRO CANADA TRAXON SYNTHETIC 75W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0289658</b>	LH0277622	LH0150658
Sample Date		Client Info		<b>05 Jun 2024</b>	25 Jan 2024	23 Nov 2021
Machine Age	hrs	Client Info		<b>11257</b>	10071	5042
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>None</b>	None	None
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>350	<b>77</b>	163	▲ 438
Chromium	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	1	4
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	1	1
Copper	ppm	ASTM D5185(m)	>300	<b>58</b>	39	35
Tin	ppm	ASTM D5185(m)	>15	<b>2</b>	2	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

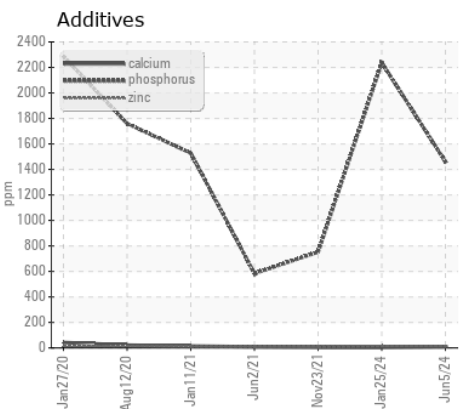
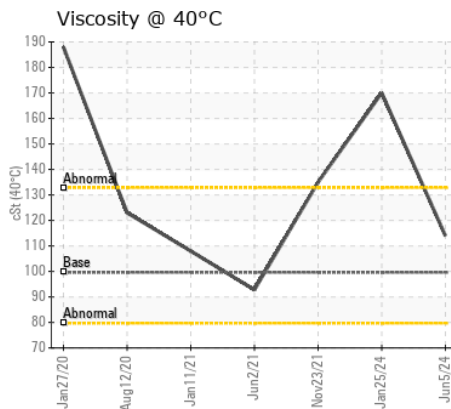
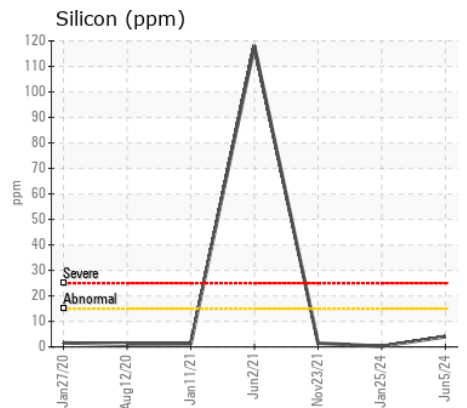
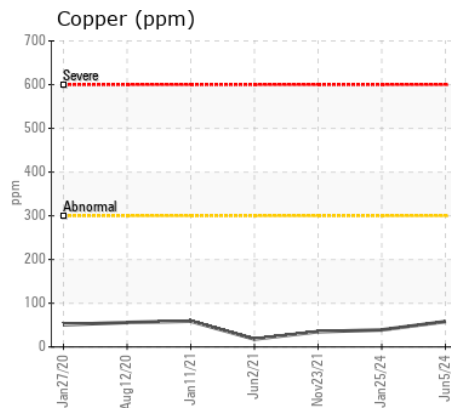
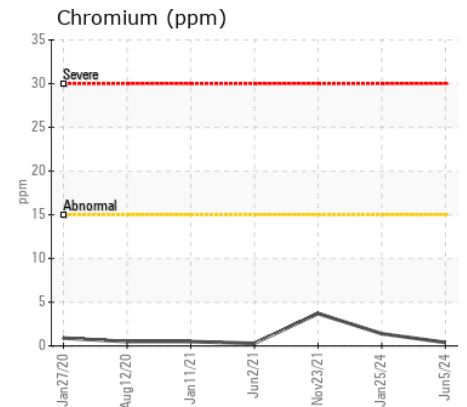
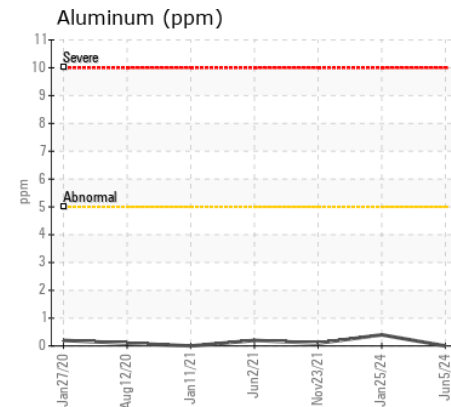
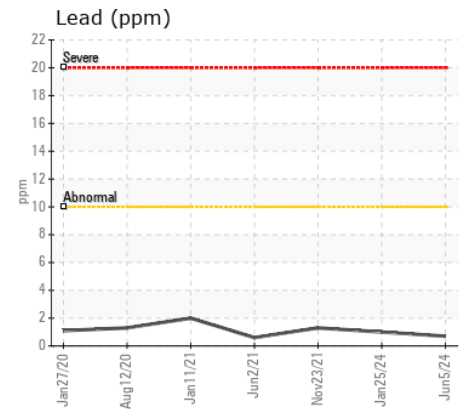
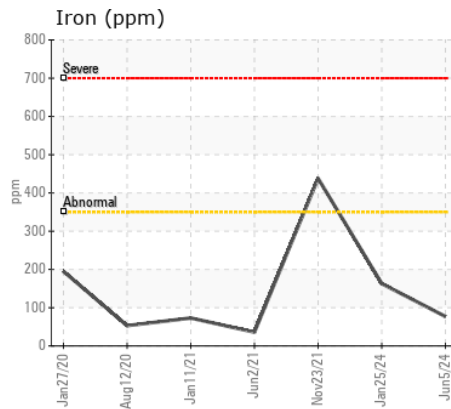
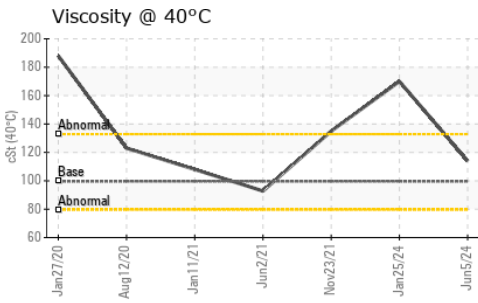
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>4</b>	<1	2
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Boron	ppm	ASTM D5185(m)	328	<b>231</b>	22	26
Barium	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	3
Magnesium	ppm	ASTM D5185(m)	1	<b>2</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	7	<b>10</b>	4	5
Phosphorus	ppm	ASTM D5185(m)	1145	<b>1461</b>	2237	752
Zinc	ppm	ASTM D5185(m)	3	<b>14</b>	16	8
Sulfur	ppm	ASTM D5185(m)	17909	<b>21019</b>	25151	18036
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>114</b>	170	135



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0289658  
**Lab Number** : 02640566  
**Unique Number** : 5789728  
**Test Package** : MOB 1  
**Received** : 07 Jun 2024  
**Tested** : 07 Jun 2024  
**Diagnosed** : 07 Jun 2024 - Wes Davis

**KIMCO STEEL SALES LTD.**  
 1325 JOHN COUNTER BLVD  
 KINGSTON, ON  
 CA K7L 4W1  
 Contact: David Roy  
 doug@kimcosteel.com  
 T: (800)267-0902  
 F: (613)548-4653

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.