



# LIEBHERR

## OIL ANALYSIS REPORT

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



Area  
**[600286]**  
Machine Id  
**LIEBHERR HS895HD 188227**  
Component  
**1 Swing Drive**  
Fluid  
**PETRO CANADA TRAXON 75W90 SYNTHETIC (--- GAL)**

### RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.  
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0286565</b>	LH0261274	LH0077141
Sample Date		Client Info		<b>01 Mar 2024</b>	04 May 2023	20 Nov 2013
Machine Age	hrs	Client Info		<b>26121</b>	24070	4741
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>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>400	<b>24</b>	10	38
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>50	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>200	<b>8</b>	26	<1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	5	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>LIGHT</b>	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

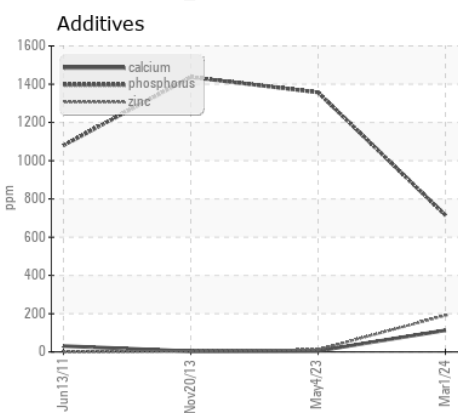
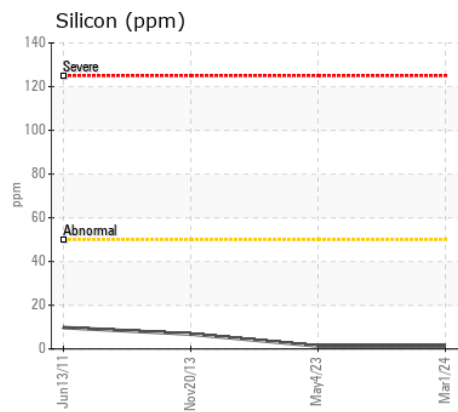
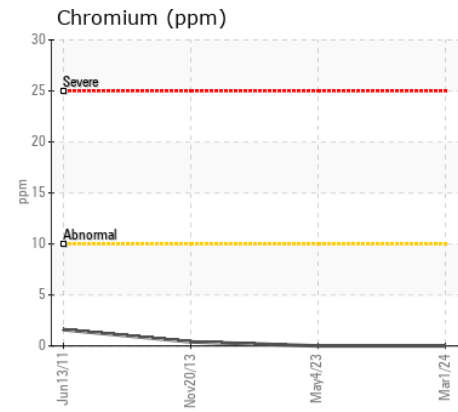
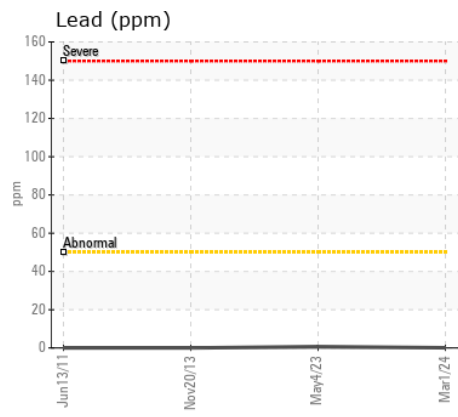
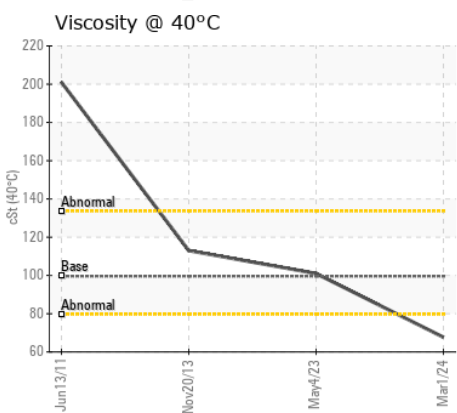
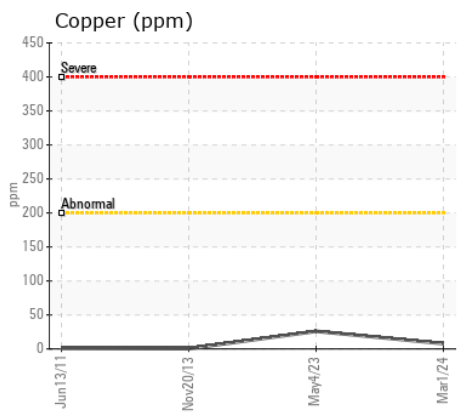
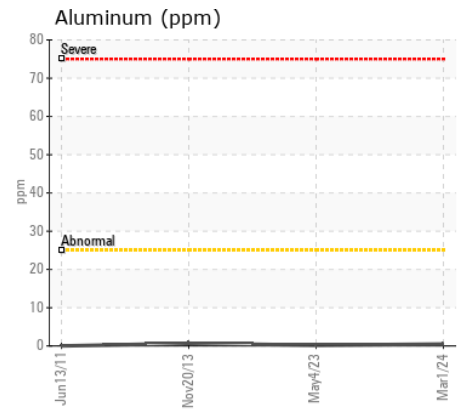
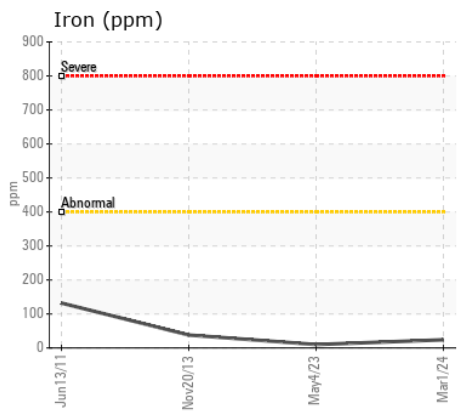
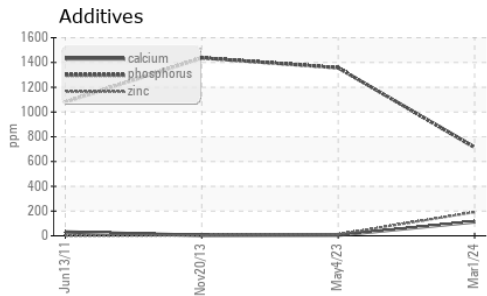
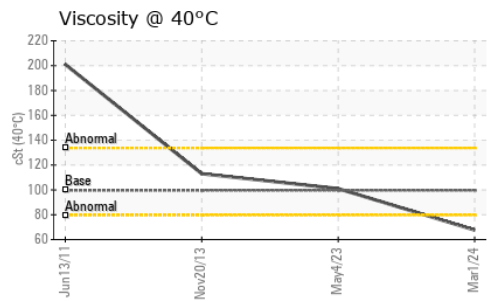
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>50	<b>1</b>	1	7
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<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>	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</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

Additive levels indicate the addition of a different brand, or type of oil.  
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	3
Boron	ppm	ASTM D5185(m)	328	<b>30</b>	300	249
Barium	ppm	ASTM D5185(m)	1	<b>1</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>4</b>	0	<1
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1	<b>59</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	7	<b>113</b>	6	4
Phosphorus	ppm	ASTM D5185(m)	1145	<b>715</b>	1357	1437
Zinc	ppm	ASTM D5185(m)	3	<b>191</b>	12	4
Sulfur	ppm	ASTM D5185(m)	17909	<b>15422</b>	20703	21981
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>67.7</b>	101	113



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0286565 **Received** : 05 Mar 2024  
**Lab Number** : 02619985 **Tested** : 05 Mar 2024  
**Unique Number** : 5737095 **Diagnosed** : 05 Mar 2024 - Wes Davis  
**Test Package** : MOB 1

**HIGGS & HIGGS**  
 RR # 4  
 ST THOMAS, ON  
 CA N5P 3S8  
 Contact: Bernie Higgs

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.

T: (519)631-4095  
 F: (519)631-2745