



LIEBHERR

OIL ANALYSIS REPORT

WEAR	MARGINAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
SOLETANCHE [604374]
Machine Id
LIEBHERR HS8100 186028
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX AW 46 (--- LTR)

RECOMMENDATION

We advise that you check for visible metal particles in the oil. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0274821	LH0192770	---
Sample Date		Client Info		06 Apr 2024	09 Feb 2022	---
Machine Age	hrs	Client Info		2891	541	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Not Changd	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				MARGINAL	NORMAL	---

WEAR

Light concentration of visible metal present.

Iron	ppm	ASTM D5185(m)	>30	2	<1	---
Chromium	ppm	ASTM D5185(m)	>10	0	0	---
Nickel	ppm	ASTM D5185(m)	>10	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>4	0	0	---
Lead	ppm	ASTM D5185(m)	>22	0	<1	---
Copper	ppm	ASTM D5185(m)	>35	7	3	---
Tin	ppm	ASTM D5185(m)	>4	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	▲ VLITE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

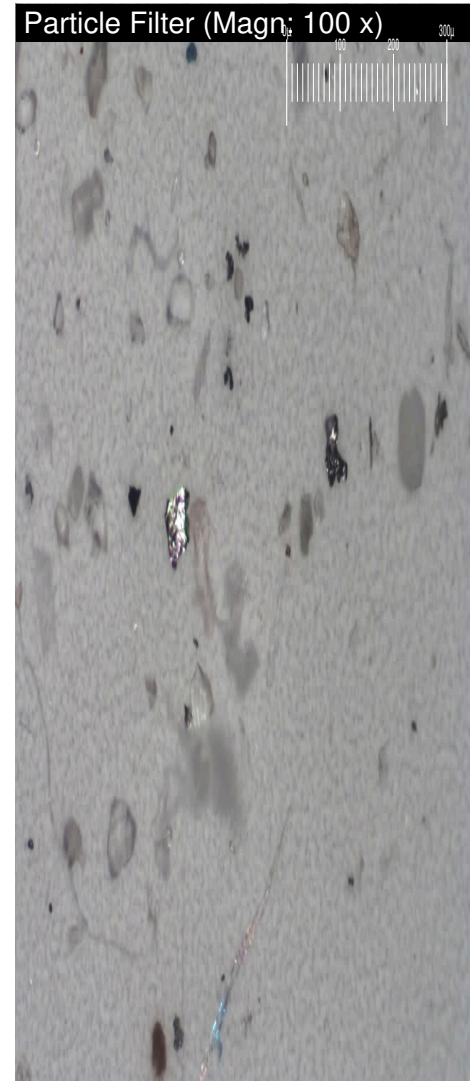
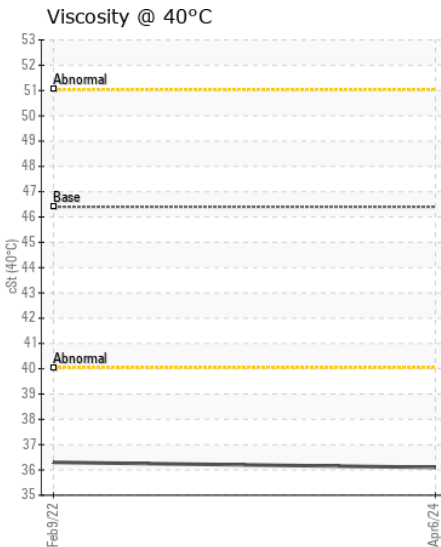
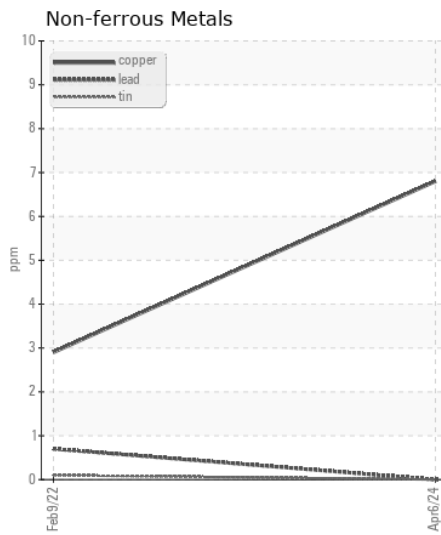
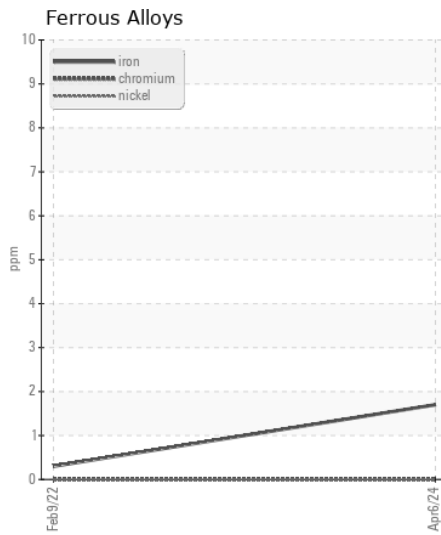
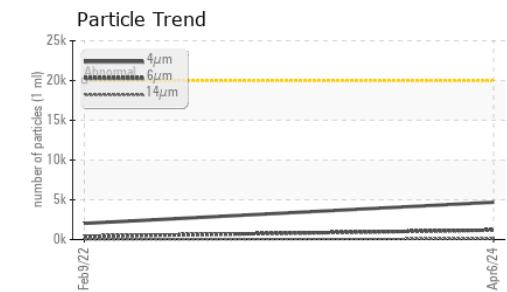
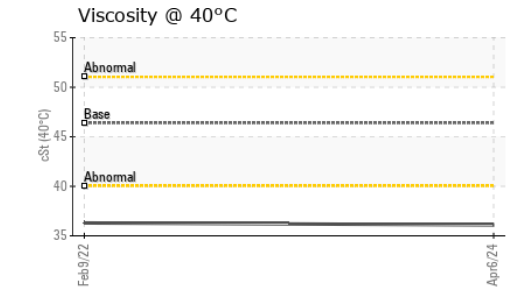
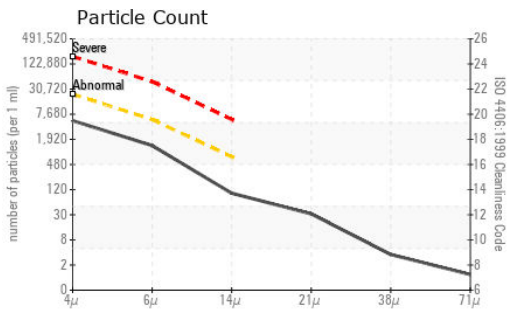
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>15	1	3	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>20000	4696	2036	---
Particles >6µm		ASTM D7647	>5000	1192	409	---
Particles >14µm		ASTM D7647	>640	87	24	---
Particles >21µm		ASTM D7647	>160	28	3	---
Particles >38µm		ASTM D7647	>40	3	0	---
Particles >71µm		ASTM D7647	>10	1	0	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/17/14	18/16/12	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

Viscosity of sample indicates oil is within ISO 32 range, advise investigate.

Sodium	ppm	ASTM D5185(m)		<1	0	---
Boron	ppm	ASTM D5185(m)	0	7	8	---
Barium	ppm	ASTM D5185(m)	0	<1	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)	0	0	0	---
Magnesium	ppm	ASTM D5185(m)	0	11	12	---
Calcium	ppm	ASTM D5185(m)	50	283	290	---
Phosphorus	ppm	ASTM D5185(m)	330	342	332	---
Zinc	ppm	ASTM D5185(m)	430	406	364	---
Sulfur	ppm	ASTM D5185(m)	760	3469	3524	---
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	36.1	36.3	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0274821 **Received** : 10 Apr 2024
Lab Number : 02627908 **Tested** : 11 Apr 2024
Unique Number : 5761040 **Diagnosed** : 11 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, PrtCount, DoFilter)

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 CA L8L 0C8
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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.