MOB I

LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
LIEBHERR LH40M 99052-1215
Component
Pump Hydraulic System
Fluid
MOBIL MOBILUBE HD 80W90 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

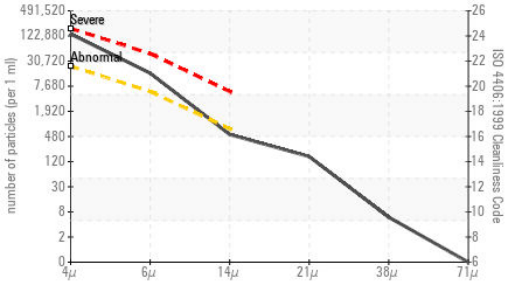
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

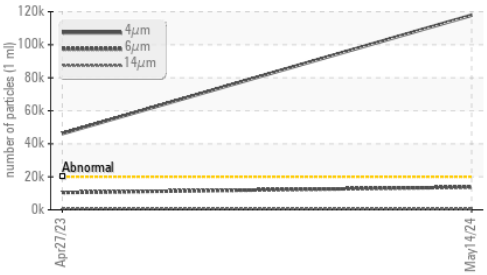
Viscosity of sample indicates oil is within SAE 80 range, advise investigate. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0071929	LH0173492	---
Sample Date		Client Info		14 May 2024	27 Apr 2023	---
Machine Age	hrs	Client Info		10879	8705	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	NORMAL	---
Iron	ppm	ASTM D5185(m)	>60	48	19	---
Chromium	ppm	ASTM D5185(m)	>40	2	<1	---
Nickel	ppm	ASTM D5185(m)	>10	0	<1	---
Titanium	ppm	ASTM D5185(m)		<1	<1	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>5	1	<1	---
Lead	ppm	ASTM D5185(m)	>5	0	<1	---
Copper	ppm	ASTM D5185(m)	>15	2	2	---
Tin	ppm	ASTM D5185(m)	>5	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185(m)	>15	4	3	---
Potassium	ppm	ASTM D5185(m)	>20	1	2	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>20000	▲ 117880	46154	---
Particles >6µm		ASTM D7647	>5000	▲ 13712	10443	---
Particles >14µm		ASTM D7647	>640	472	768	---
Particles >21µm		ASTM D7647	>160	140	163	---
Particles >38µm		ASTM D7647	>40	5	2	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 24/21/16	23/21/17	---
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	---
Sodium	ppm	ASTM D5185(m)		18	47	---
Boron	ppm	ASTM D5185(m)		105	116	---
Barium	ppm	ASTM D5185(m)		4	10	---
Molybdenum	ppm	ASTM D5185(m)		0	<1	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		4	3	---
Calcium	ppm	ASTM D5185(m)		79	38	---
Phosphorus	ppm	ASTM D5185(m)		842	1157	---
Zinc	ppm	ASTM D5185(m)		218	104	---
Sulfur	ppm	ASTM D5185(m)		16604	18002	---
Visc @ 40°C	cSt	ASTM D7279(m)	136	88.3	93.5	---

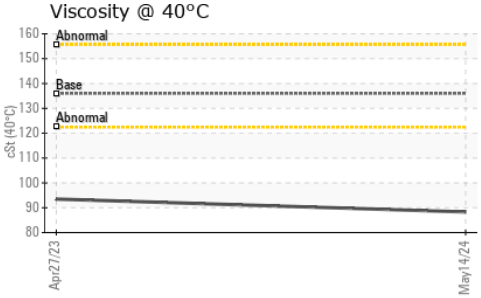
Particle Count



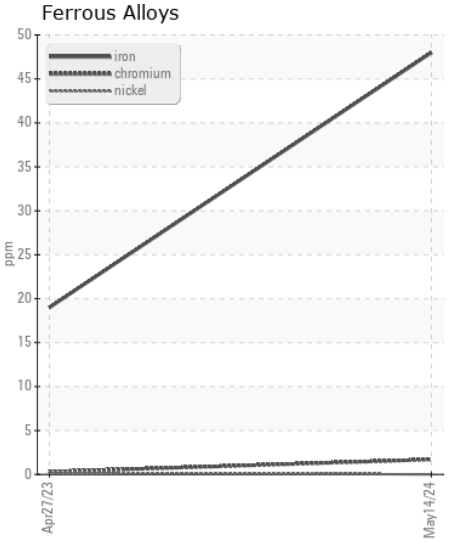
Particle Trend



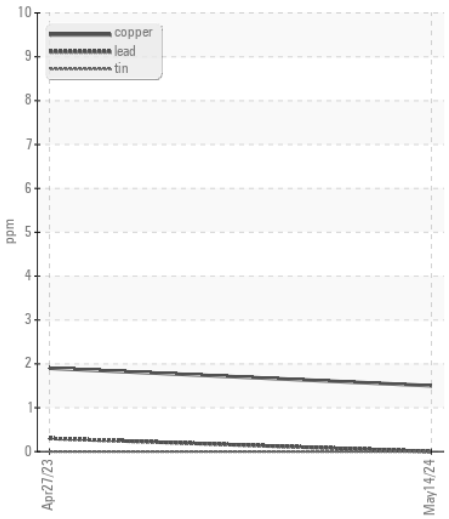
Viscosity @ 40°C



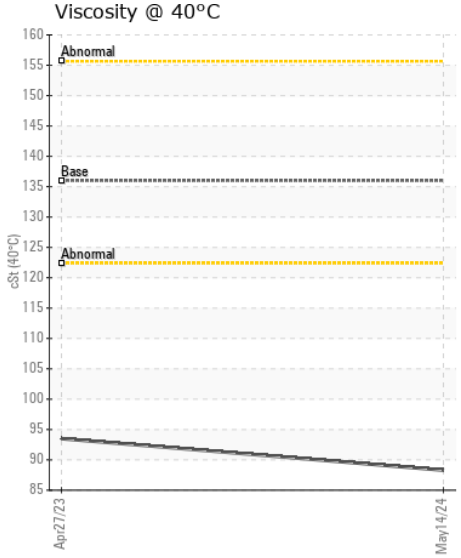
Ferrous Alloys



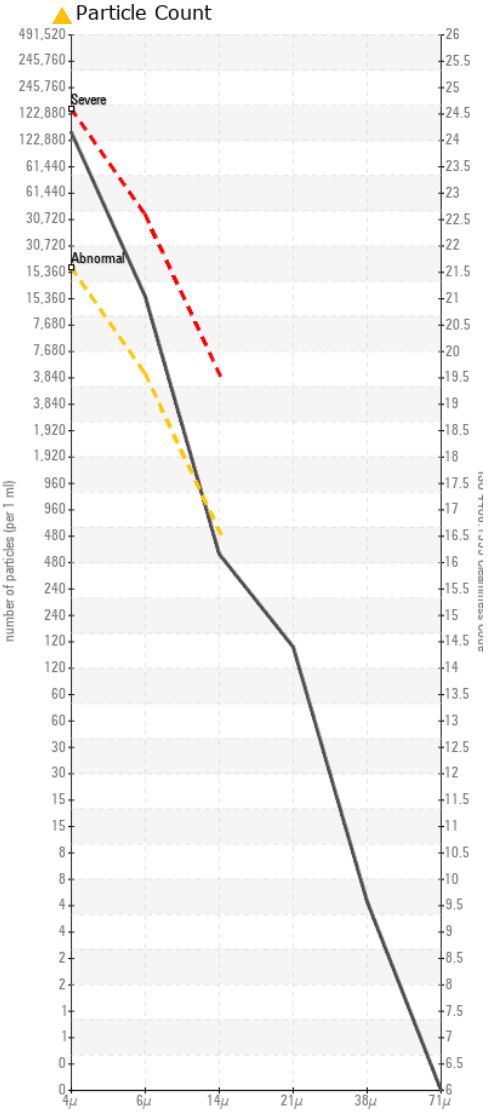
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



CALA
ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0071929
Lab Number : 02639443
Unique Number : 5788605
Test Package : MOB 1 (Additional Tests: PrtCount)
Received : 03 Jun 2024
Tested : 04 Jun 2024
Diagnosed : 05 Jun 2024 - Kevin Marson

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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.