MOB

LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
LIEBHERR LH30M 1253-145780
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 10W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

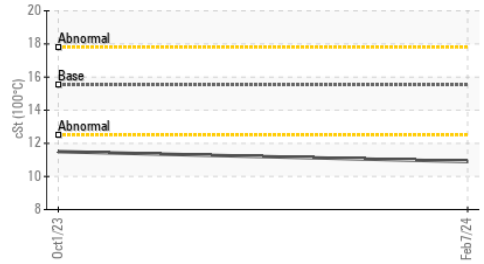
Fuel content negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

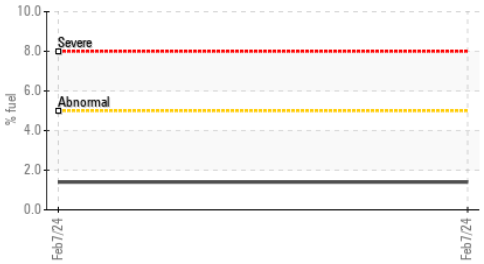
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0276605	LH0276602	---
Sample Date		Client Info		07 Feb 2024	01 Oct 2023	---
Machine Age	hrs	Client Info		1023	520	---
Oil Age	hrs	Client Info		0	520	---
Filter Age	hrs	Client Info		0	520	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ATTENTION	ABNORMAL	---
Iron	ppm	ASTM D5185m	>66	5	15	---
Chromium	ppm	ASTM D5185m	>4	<1	2	---
Nickel	ppm	ASTM D5185m	>4	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>8	2	4	---
Lead	ppm	ASTM D5185m	>10	<1	3	---
Copper	ppm	ASTM D5185m	>74	43	▲ 276	---
Tin	ppm	ASTM D5185m	>4	1	2	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>15	7	10	---
Potassium	ppm	ASTM D5185m	>20	2	5	---
Fuel	%	ASTM D3524	>5	1.4	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	9.8	12.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	39.7	---
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	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185m		0	0	---
Boron	ppm	ASTM D5185m	2	107	92	---
Barium	ppm	ASTM D5185m	0	16	36	---
Molybdenum	ppm	ASTM D5185m	60	48	47	---
Manganese	ppm	ASTM D5185m	0	<1	1	---
Magnesium	ppm	ASTM D5185m	1010	874	914	---
Calcium	ppm	ASTM D5185m	1070	1302	1347	---
Phosphorus	ppm	ASTM D5185m	1150	732	746	---
Zinc	ppm	ASTM D5185m	1270	882	886	---
Sulfur	ppm	ASTM D5185m	2060	2521	2160	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.9	52.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	▲ 3.8	---
Visc @ 100°C	cSt	ASTM D445	15.52	▲ 10.9	11.5	---

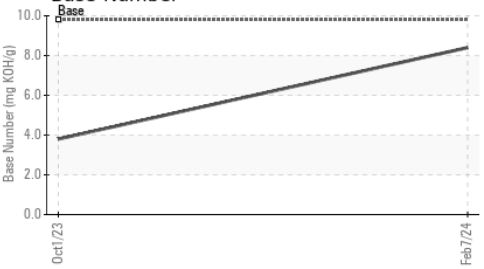
Viscosity @ 100°C



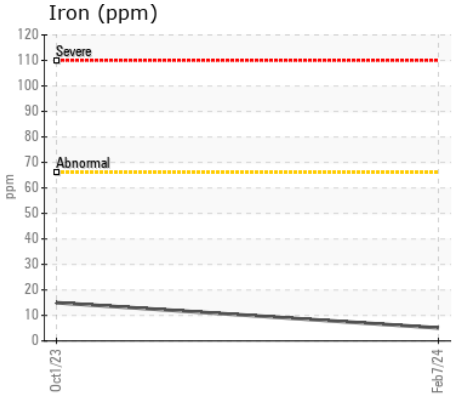
Fuel Dilution



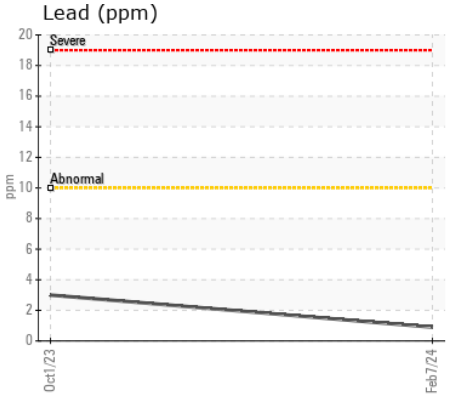
Base Number



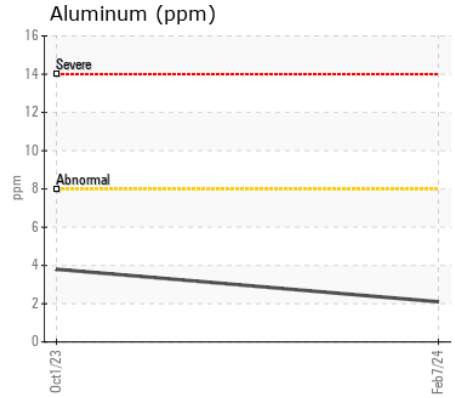
Iron (ppm)



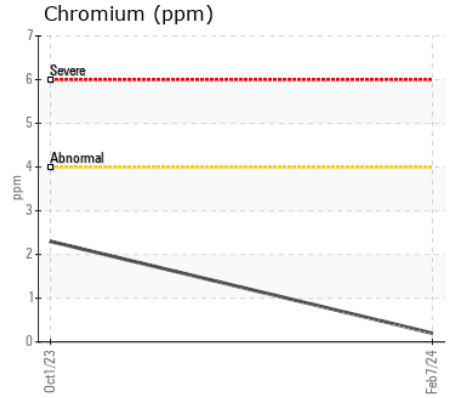
Lead (ppm)



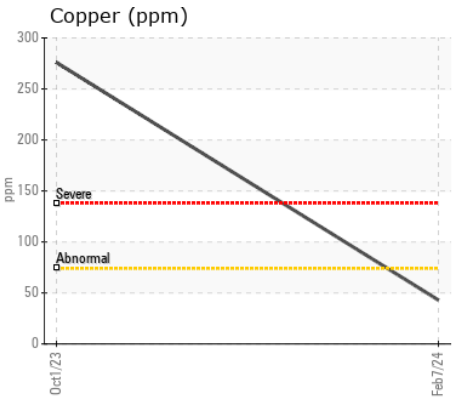
Aluminum (ppm)



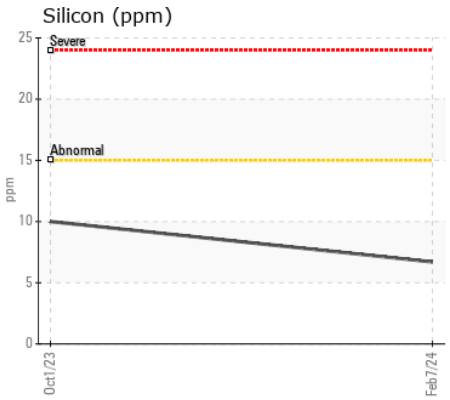
Chromium (ppm)



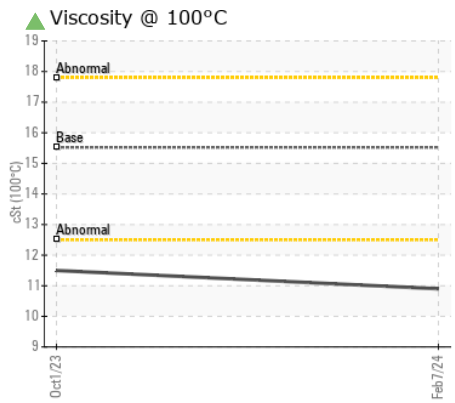
Copper (ppm)



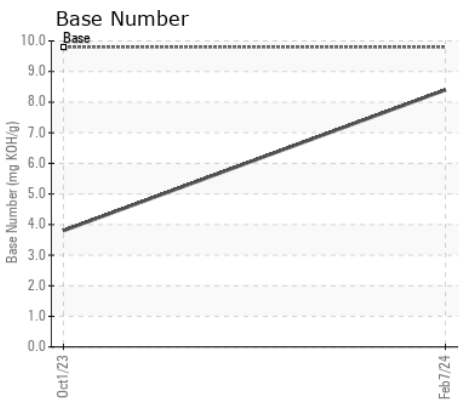
Silicon (ppm)



Viscosity @ 100°C



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LH0276605 **Received** : 12 Feb 2024
Lab Number : 06086552 **Tested** : 14 Feb 2024
Unique Number : 10873997 **Diagnosed** : 14 Feb 2024 - Don Baldridge
Test Package : MOBCE (Additional Tests: FuelDilution, PercentFuel, TBN)

Certificate L2367

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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