



McCLUNG-LOGAN
EQUIPMENT COMPANY, INC.

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Area
[W02008035]
Machine Id
VOLVO L150H 7193
Component
Diesel Engine
Fluid
MOBIL 15W40 (14 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: W02008035 2000 hour service)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0886307	VCP426057	---
Sample Date		Client Info		23 Feb 2024	02 Nov 2023	---
Machine Age	hrs	Client Info		2065	1494	---
Oil Age	hrs	Client Info		500	1500	---
Filter Age	hrs	Client Info		500	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	0	16	---
Chromium	ppm	ASTM D5185m	>20	0	<1	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>30	3	2	---
Lead	ppm	ASTM D5185m	>40	2	<1	---
Copper	ppm	ASTM D5185m	>20	▲ 29	▲ 132	---
Tin	ppm	ASTM D5185m	>20	<1	2	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

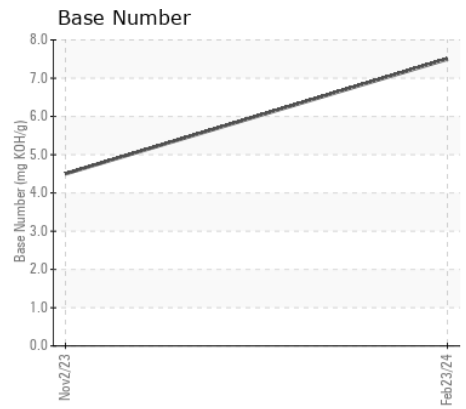
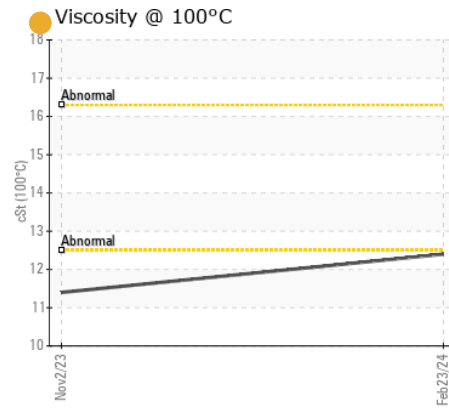
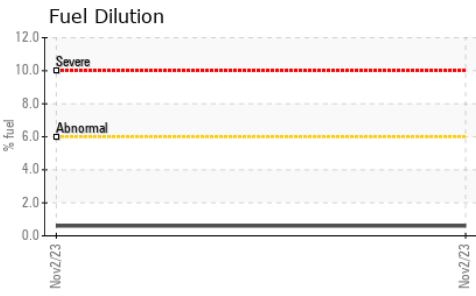
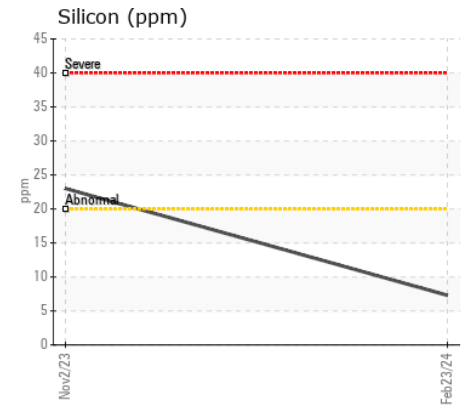
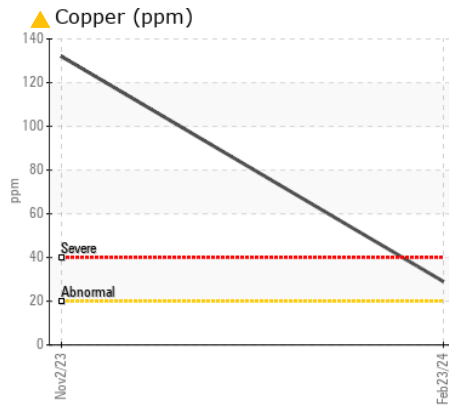
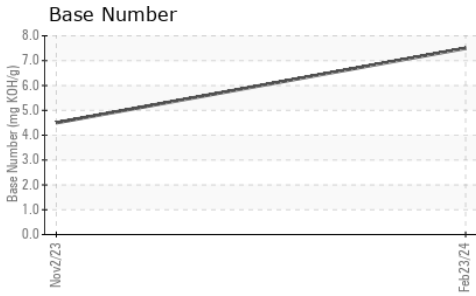
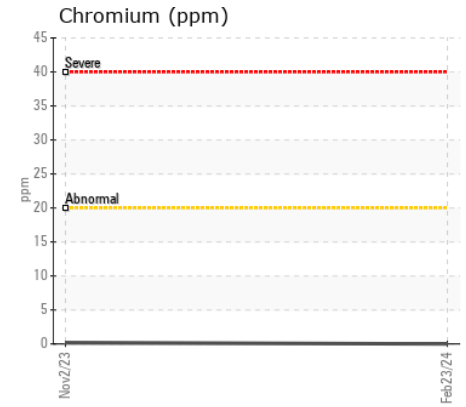
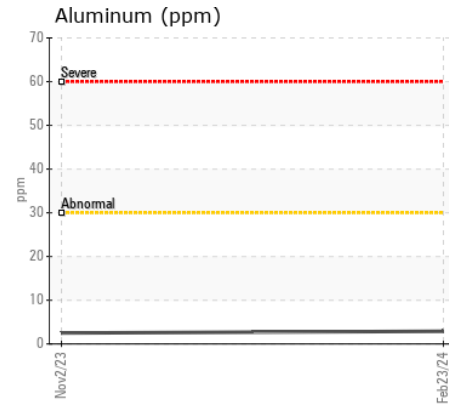
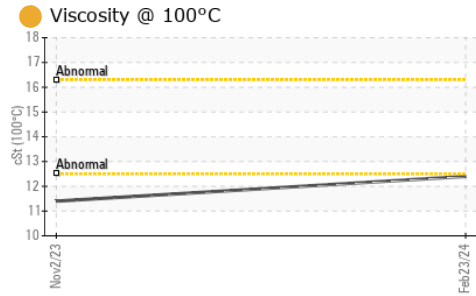
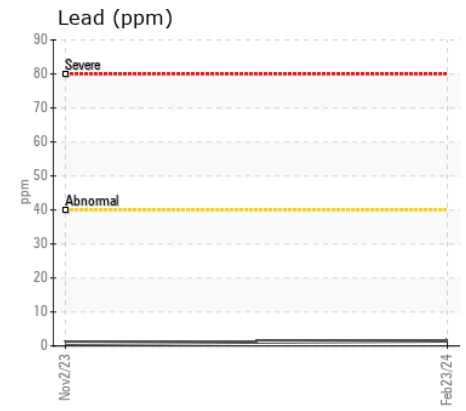
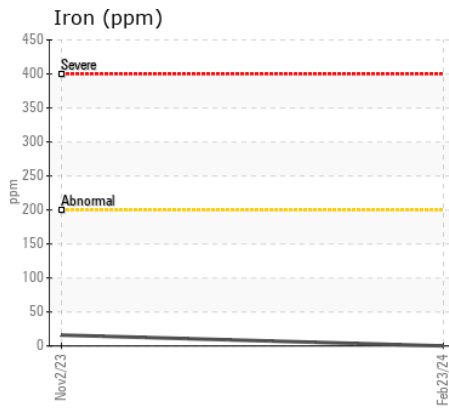
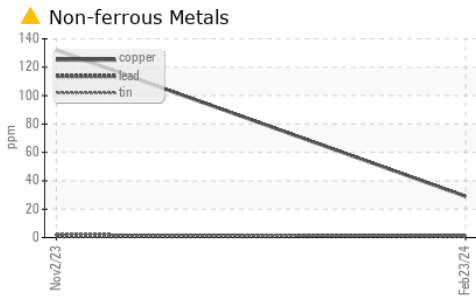
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	7	23	---
Potassium	ppm	ASTM D5185m	>20	2	4	---
Fuel	%	ASTM D3524	>6.0	<1.0	0.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	7.6	9.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	23.5	---
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	---

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.

Sodium	ppm	ASTM D5185m	>118	2	4	---
Boron	ppm	ASTM D5185m		321	18	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		121	83	---
Manganese	ppm	ASTM D5185m		<1	3	---
Magnesium	ppm	ASTM D5185m		611	158	---
Calcium	ppm	ASTM D5185m		1714	2136	---
Phosphorus	ppm	ASTM D5185m		801	963	---
Zinc	ppm	ASTM D5185m		959	1275	---
Sulfur	ppm	ASTM D5185m		2617	3584	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	17.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	4.5	---
Visc @ 100°C	cSt	ASTM D445		● 12.4	● 11.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0886307
Lab Number : 06100729
Unique Number : 10898959
Test Package : MOBCE (Additional Tests: FuelDilution, PercentFuel, TBN)

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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)