



McCLUNG-LOGAN
EQUIPMENT COMPANY, INC.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
[W/O 10979]
Machine Id
VOLVO EC480 310440
Component
Right Swing Drive
Fluid
MOBIL MOBILUBE HD 85W140 (2 GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0002118	VCP286043	---
Sample Date		Client Info		17 Jun 2024	27 Aug 2020	---
Machine Age	hrs	Client Info		6147	4753	---
Oil Age	hrs	Client Info		1394	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	124	370	---
Chromium	ppm	ASTM D5185m	>10	<1	3	---
Nickel	ppm	ASTM D5185m	>10	0	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	<1	<1	---
Lead	ppm	ASTM D5185m	>50	<1	<1	---
Copper	ppm	ASTM D5185m	>50	6	6	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

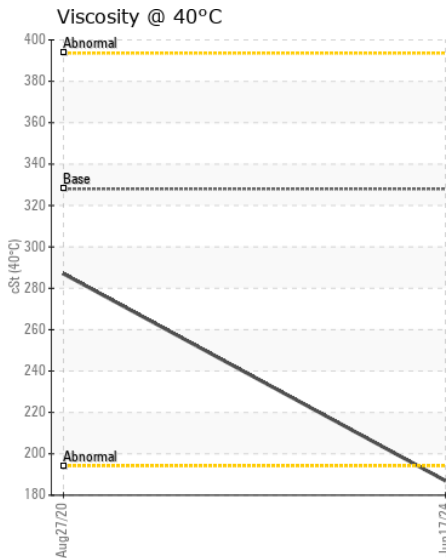
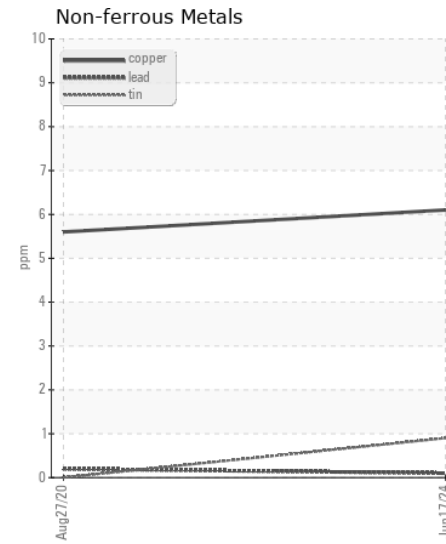
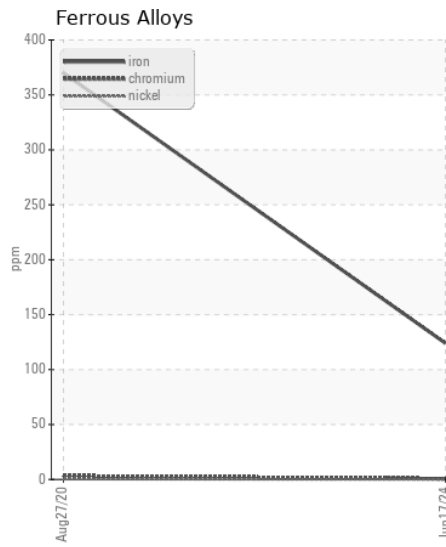
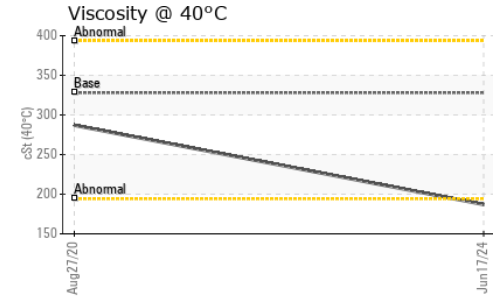
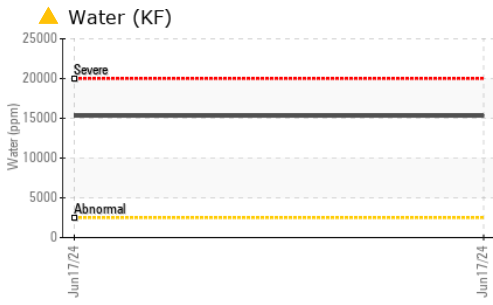
There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>100	5	3	---
Potassium	ppm	ASTM D5185m	>20	3	<1	---
Water	%	ASTM D6304	>0.25	▲ 1.53	---	---
ppm Water	ppm	ASTM D6304	>2500	▲ 15300	---	---
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	>0.25	▲ 0.2%	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	0	---
Boron	ppm	ASTM D5185m		71	106	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		11	0	---
Manganese	ppm	ASTM D5185m		2	3	---
Magnesium	ppm	ASTM D5185m		86	4	---
Calcium	ppm	ASTM D5185m		276	64	---
Phosphorus	ppm	ASTM D5185m		867	767	---
Zinc	ppm	ASTM D5185m		257	32	---
Sulfur	ppm	ASTM D5185m		24840	21795	---
Visc @ 40°C	cSt	ASTM D445	328	187	287	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : ML0002118

Lab Number : 06216401

Unique Number : 11089265

Test Package : CONST (Additional Tests: KF)

Received : 20 Jun 2024

Tested : 22 Jun 2024

Diagnosed : 23 Jun 2024 - Don Baldrige

MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS

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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)