



McCLUNG-LOGAN
EQUIPMENT COMPANY, INC.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[W02008502]

Machine Id

VOLVO EC480E 310963

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 30 (14 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W02008502)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0001098	ML0001073	---
Sample Date		Client Info		03 Jul 2024	22 Apr 2024	---
Machine Age	hrs	Client Info		9174	8775	---
Oil Age	hrs	Client Info		9174	8775	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	5	12	---
Chromium	ppm	ASTM D5185m	>10	0	0	---
Nickel	ppm	ASTM D5185m	>10	0	2	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>10	<1	<1	---
Lead	ppm	ASTM D5185m	>20	<1	0	---
Copper	ppm	ASTM D5185m	>15	0	0	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

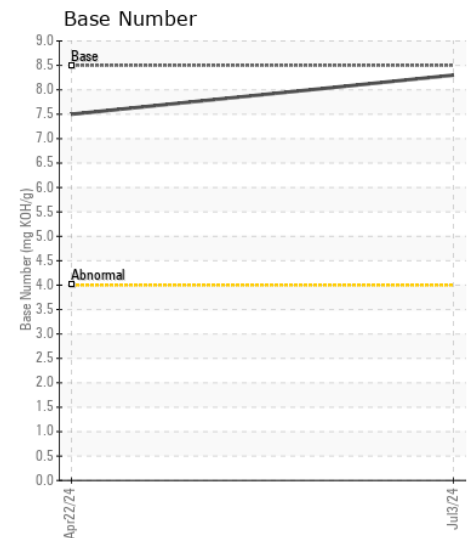
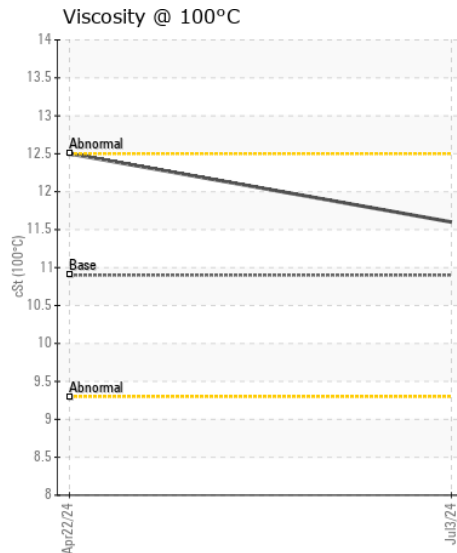
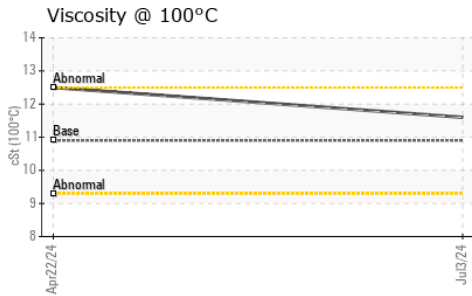
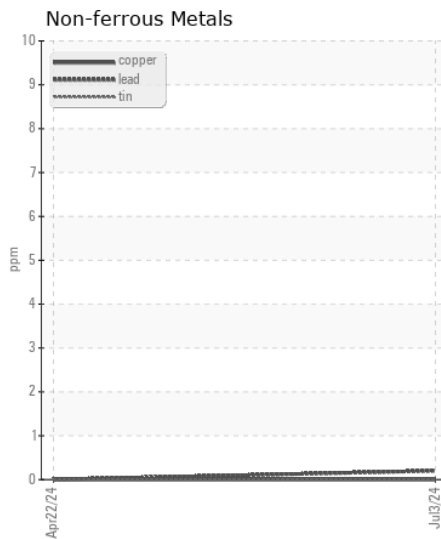
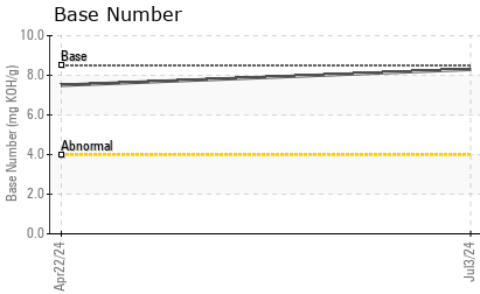
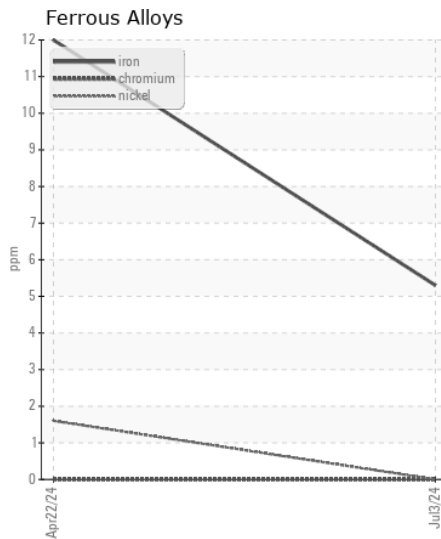
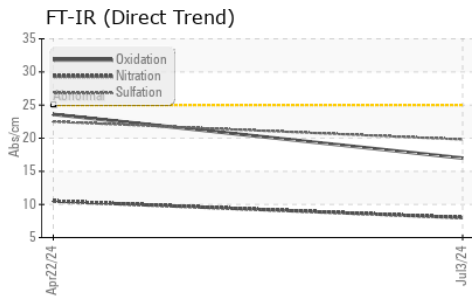
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	5	6	---
Potassium	ppm	ASTM D5185m	>20	<1	0	---
Fuel		WC Method	>6.0	<1.0	<1.0	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	8.0	10.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	22.5	---
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	>0.1	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>75	2	2	---
Boron	ppm	ASTM D5185m	250	16	23	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	61	48	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m	450	736	544	---
Calcium	ppm	ASTM D5185m	3000	1384	1914	---
Phosphorus	ppm	ASTM D5185m	1150	960	809	---
Zinc	ppm	ASTM D5185m	1350	1126	986	---
Sulfur	ppm	ASTM D5185m	4250	3309	3014	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	23.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.3	7.5	---
Visc @ 100°C	cSt	ASTM D445	10.9	11.6	12.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001098 **Received** : 05 Jul 2024
Lab Number : 06229403 **Tested** : 09 Jul 2024
Unique Number : 11112896 **Diagnosed** : 09 Jul 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: TBN)

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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