



# LUBE PLUS+

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**CATERPILLAR L-10**  
Component  
**Transmission**  
Fluid  
**FLEETGUARD SAE 30 (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LP0001903</b>	LP0000656	---
Sample Date		Client Info		<b>15 Apr 2024</b>	25 Sep 2023	---
Machine Age	hrs	Client Info		<b>13343</b>	12124	---
Oil Age	hrs	Client Info		<b>500</b>	1374	---
Filter Age	hrs	Client Info		<b>500</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Not Changd	---
Filter Changed		Client Info		<b>Changed</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>4</b>	3	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>2</b>	<1	---
Silver	ppm	ASTM D5185m		<b>1</b>	0	---
Aluminum	ppm	ASTM D5185m	>50	<b>1</b>	2	---
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>200	<b>1</b>	16	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

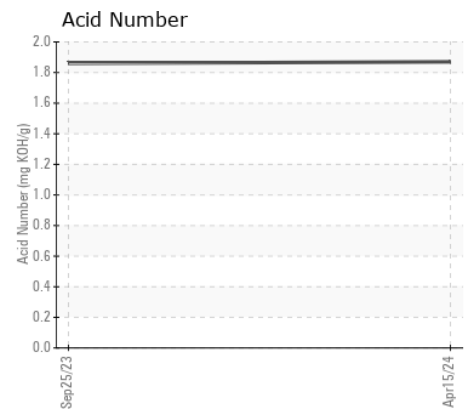
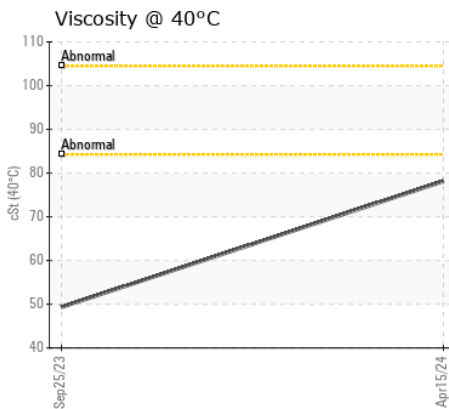
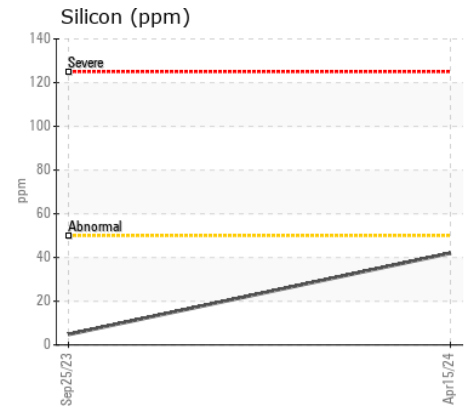
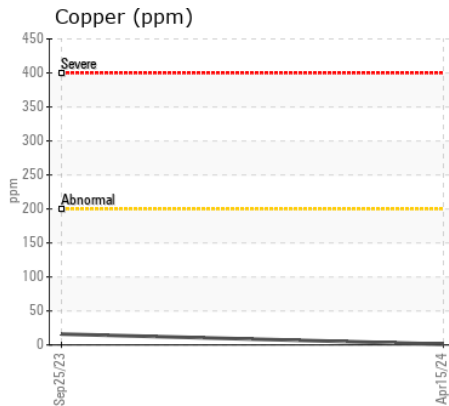
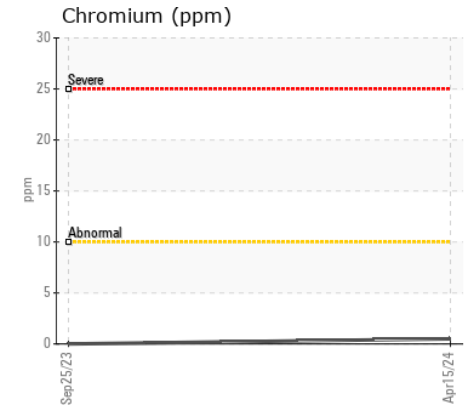
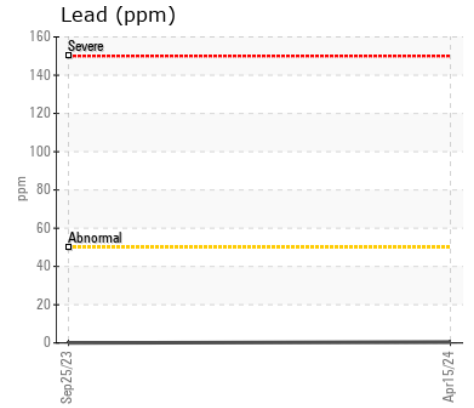
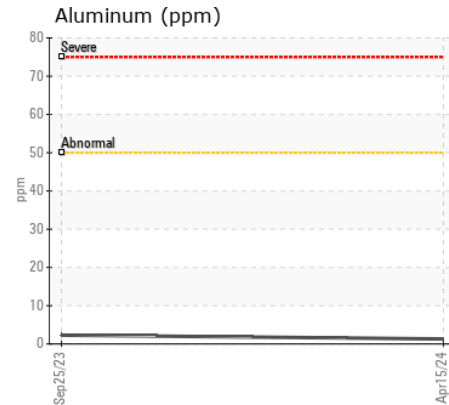
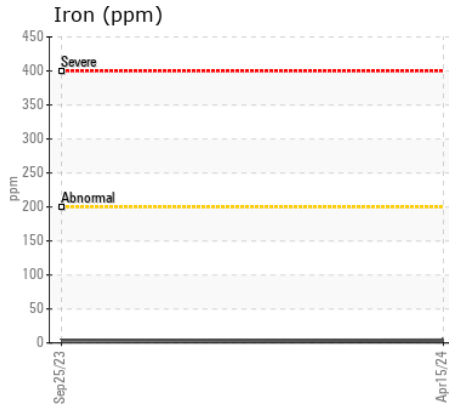
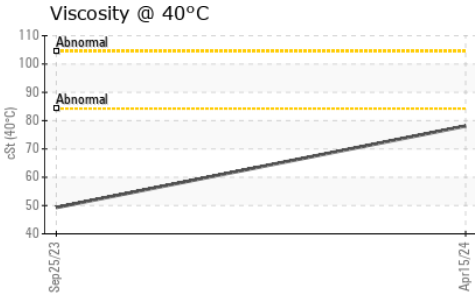
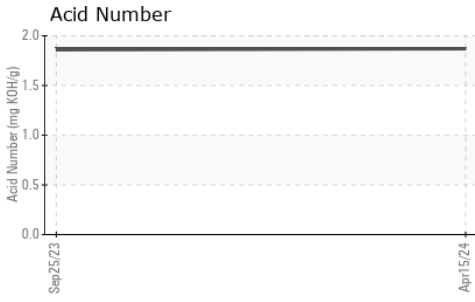
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>50	<b>42</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	---

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Boron	ppm	ASTM D5185m		<b>16</b>	16	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>5</b>	8	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>1089</b>	204	---
Calcium	ppm	ASTM D5185m		<b>1301</b>	2576	---
Phosphorus	ppm	ASTM D5185m		<b>1288</b>	1158	---
Zinc	ppm	ASTM D5185m		<b>1497</b>	1349	---
Sulfur	ppm	ASTM D5185m		<b>5938</b>	3850	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.87</b>	1.86	---
Visc @ 40°C	cSt	ASTM D445		<b>78.1</b>	49.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LP0001903  
**Lab Number** : 06194226  
**Unique Number** : 11056349  
**Test Package** : MOB 2

**Received** : 29 May 2024  
**Tested** : 30 May 2024  
**Diagnosed** : 30 May 2024 - Wes Davis

**S.M. LORUSSO & SONS**  
 10 GROVE ST  
 WEST ROXBURY, MA  
 US 02132

Contact: N CAPPOLANO  
 NCAPPOLANO@SMLORUSSO.COM

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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 F: