

**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 



Machine Id **CATERPILLAR L-10** Hydraulic System FLEETLINE AW 46 (--- QTS)

ı	RECOMMENDATION	
	The filter change at the time of samp	ling has been noted. M

recommend an early resample to monitor this condition.

All component wear rates are normal.

## CONTAMINATION

There is a moderate amount of siit (particulates < 14 microns in size)
present in the oil.

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The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Curre	ent	History1	History2
Sample Number		Client Info		LP000	)1911	LP0000655	
Sample Date		Client Info		15 Apr	r 2024	25 Sep 2023	
Machine Age	hrs	Client Info		13743	3	12124	
Oil Age	hrs	Client Info		2153		750	
Filter Age	hrs	Client Info		2153		0	
Oil Changed		Client Info		Chan	ged	N/A	
Filter Changed		Client Info		Chan	ged	N/A	
Sample Status				ABNO	RMAL	ABNORMAL	
Iron	ppm	ASTM D5185m	>20	10		<u>^</u> 28	
Chromium	ppm	ASTM D5185m	>10	<1		1	
Nickel	ppm	ASTM D5185m	>10	<1		0	
Titanium	ppm	ASTM D5185m		<1		<1	
Silver	ppm	ASTM D5185m		<1		<1	
Aluminum	ppm	ASTM D5185m	>10	6		<b>1</b> 0	
Lead	ppm	ASTM D5185m	>10	<1		1	
Copper	ppm	ASTM D5185m	>75	11		22	
Tin	ppm	ASTM D5185m	>10	<1		<1	
Vanadium	ppm	ASTM D5185m		0		0	
White Metal	scalar	*Visual	NONE		NE	NONE	
Yellow Metal	scalar	*Visual	NONE	NC	NE	NONE	
Silicon	ppm	ASTM D5185m	>20	16		<u></u>	
Potassium	ppm	ASTM D5185m	>20	6		7	
Water		WC Method	>0.1	NE		NEG	
Particles >4µm		ASTM D7647	>5000	_	799	<u>▲</u> 172762	
Particles >6µm		ASTM D7647	>1300	54	4	<del>^</del> 70741	
Particles >14μm		ASTM D7647	>160	61		<u>1297</u>	
Particles >21µm		ASTM D7647	>40	25		<u>136</u>	
Particles >38µm		ASTM D7647	>10	2		2	
Particles >71µm		ASTM D7647	>3	0		0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14		16/13	<u>\$\Delta\$ 25/23/17</u>	
Silt	scalar	*Visual	NONE		NE	NONE	
Debris	scalar	*Visual	NONE		NE	LIGHT	
Sand/Dirt	scalar	*Visual	NONE		NE	NONE	
Appearance	scalar	*Visual	NORML		RML	NORML	
Odor	scalar	*Visual	NORML		RML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NE	:G	NEG	
C		ACTM DE10E		0		0	
Sodium	ppm	ASTM D5185m		3		3	
Boron	ppm	ASTM D5185m		9		24	
Barium	ppm	ASTM D5185m		0		0	
Molybdenum	ppm	ASTM D5185m		3		7	
Manganese	ppm	ASTM D5185m		<1		1	
Magnesium	ppm	ASTM D5185m		62		91	
Calcium	ppm	ASTM D5185m		12		2757	
Phosphorus	ppm	ASTM D5185m		68		1112	
Zinc	ppm	ASTM D5185m		81:		1297	
Sulfur	ppm	ASTM D5185m		24	07	3696	

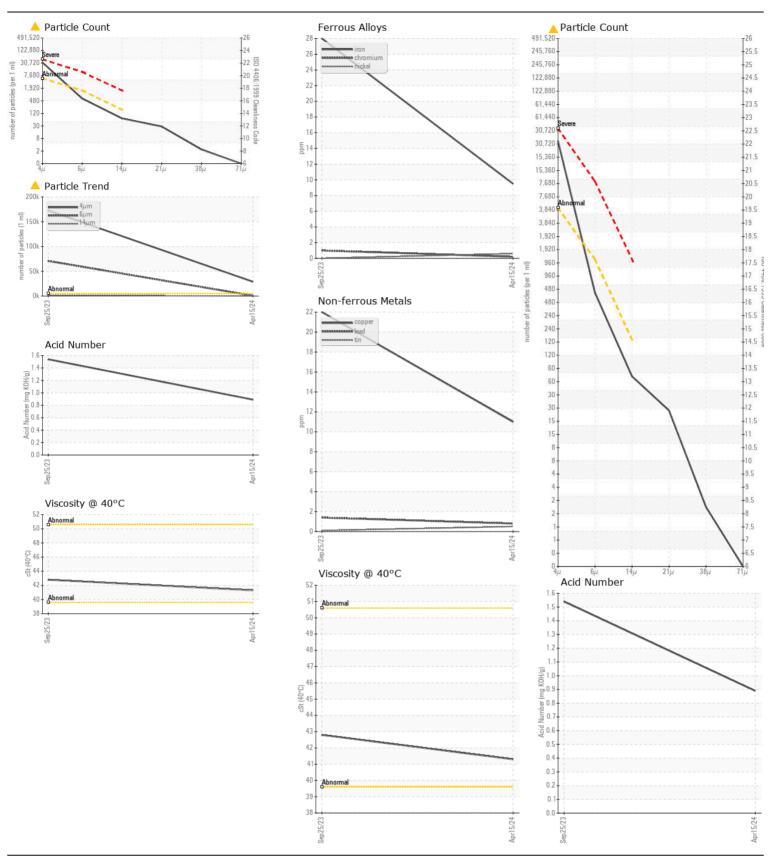
Acid Number (AN) mg KOH/g ASTM D8045

Visc @ 40°C cSt ASTM D445

1.54

42.8

0.89





Certificate L2367

Laboratory Sample No.

: LP0001911 Lab Number : 06192769 Unique Number : 11049521 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 May 2024 **Tested** : 30 May 2024

: 30 May 2024 - Wes Davis Diagnosed

S.M. LORUSSO & SONS 10 GROVE ST

WEST ROXBURY, MA US 02132

Contact: MARK ERWIN merwin@smlorusso.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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