



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR 904B L-26
Component
Hydraulic System
Fluid
FLEET GUARD AW 46 (15 GAL)

RECOMMENDATION

The filter 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		LP0001153	WC0524296	WCM2262933
Sample Date		Client Info		30 Jan 2024	12 Apr 2021	27 Sep 2016
Machine Age	hrs	Client Info		9200	6620	2661
Oil Age	hrs	Client Info		2000	0	2661
Filter Age	hrs	Client Info		2000	0	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<1	4	5
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	1	3
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	2	2	1
Lead	ppm	ASTM D5185m	>10	0	3	6
Copper	ppm	ASTM D5185m	>75	1	12	45
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

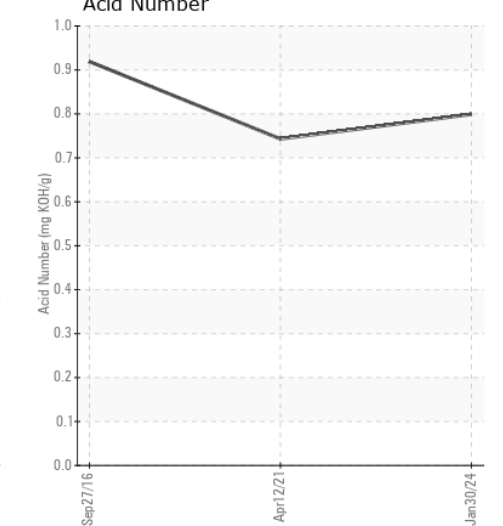
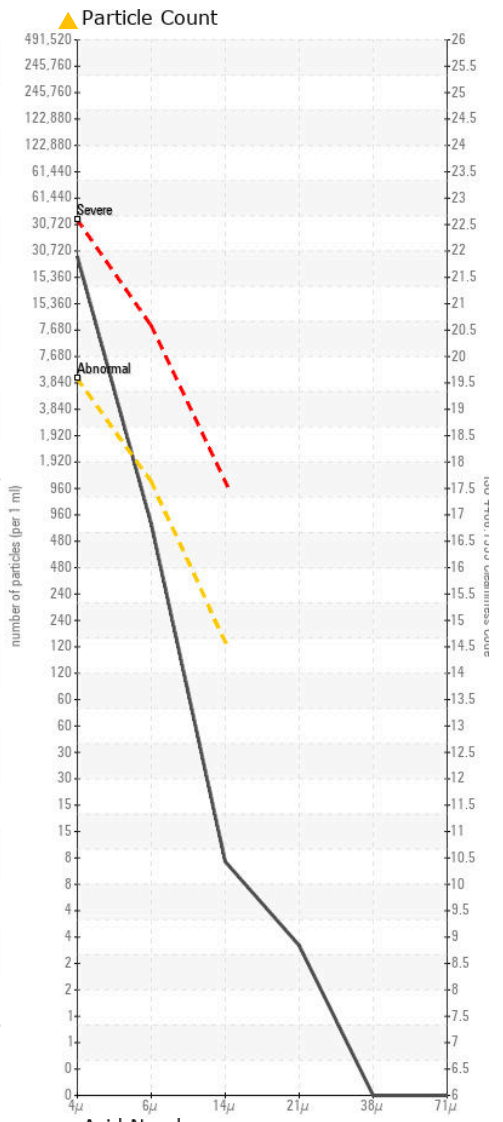
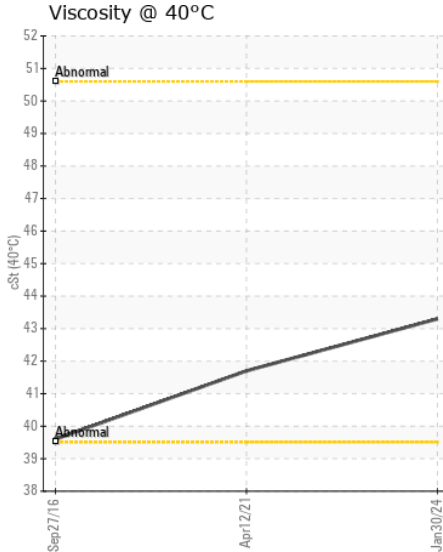
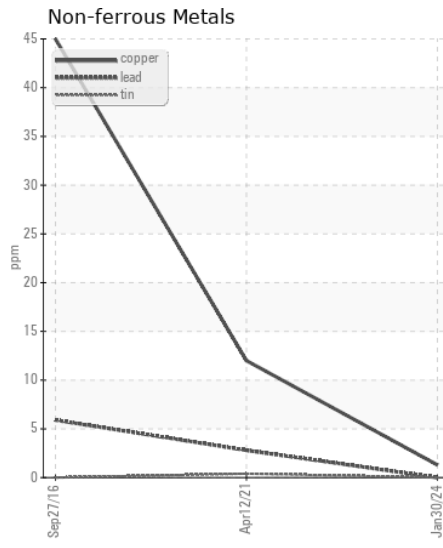
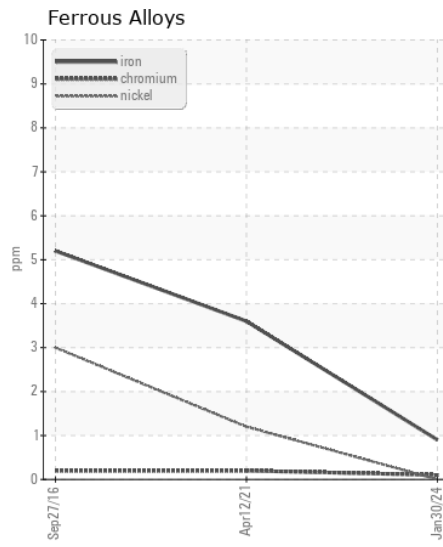
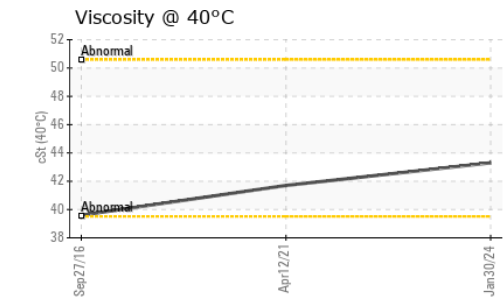
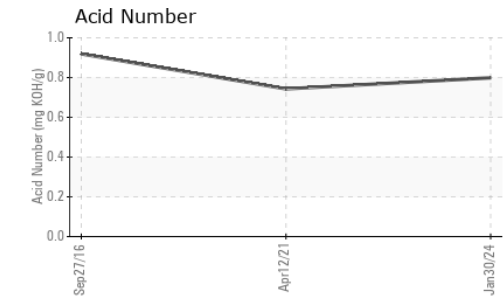
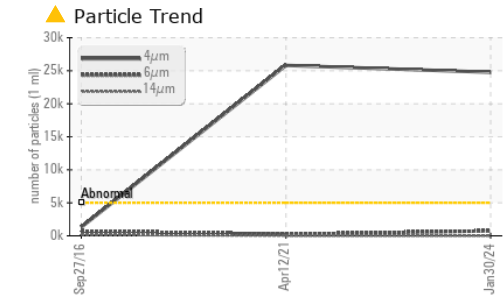
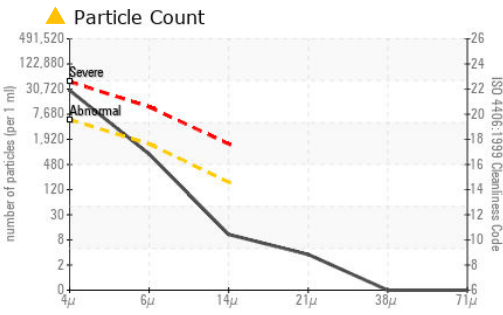
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	1	5	8
Potassium	ppm	ASTM D5185m	>20	<1	1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 24767	▲ 25811	1313
Particles >6µm		ASTM D7647	>1300	747	228	715
Particles >14µm		ASTM D7647	>160	9	9	121
Particles >21µm		ASTM D7647	>40	3	1	41
Particles >38µm		ASTM D7647	>10	0	0	6
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/17/10	▲ 22/15/10	18/17/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	1	1
Boron	ppm	ASTM D5185m		2	7	5
Barium	ppm	ASTM D5185m		8	0	0
Molybdenum	ppm	ASTM D5185m		1	4	1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		26	44	74
Calcium	ppm	ASTM D5185m		663	1875	1887
Phosphorus	ppm	ASTM D5185m		492	750	852
Zinc	ppm	ASTM D5185m		563	864	991
Sulfur	ppm	ASTM D5185m		1410	2463	4885
Acid Number (AN)	mg KOH/g	ASTM D8045		0.799	0.743	0.919
Visc @ 40°C	cSt	ASTM D445		43.3	41.7	39.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0001153
Lab Number : 06100883
Unique Number : 10899113
Test Package : MOB 2

Received : 26 Feb 2024
Tested : 27 Feb 2024
Diagnosed : 27 Feb 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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