



LUBE PLUS+

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR 904B L-26 (S/N 100801)
Component
Diesel Engine
Fluid
FLEETLINE SUPERFLEET XHD 15W40 (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LP0001202	LP0001159	LP0000471
Sample Date		Client Info		10 Jun 2024	30 Jan 2024	23 Aug 2023
Machine Age	hrs	Client Info		9304	9200	8968
Oil Age	hrs	Client Info		304	200	250
Filter Age	hrs	Client Info		304	200	250
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	14	12	20
Chromium	ppm	ASTM D5185m	>20	7	4	4
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	3
Lead	ppm	ASTM D5185m	>40	1	<1	2
Copper	ppm	ASTM D5185m	>330	1	<1	4
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

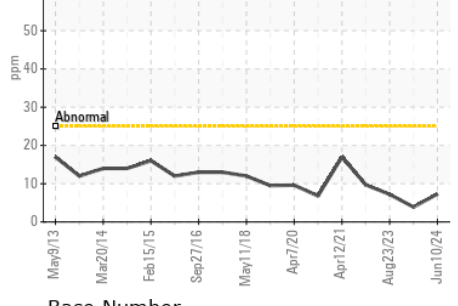
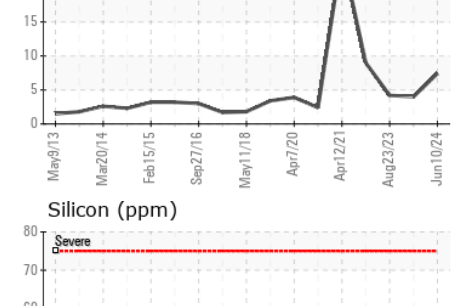
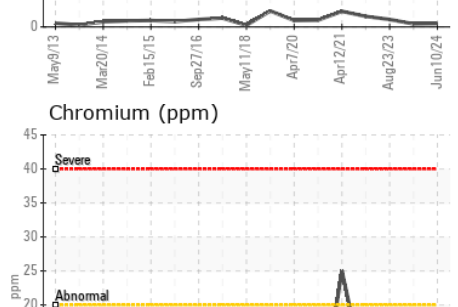
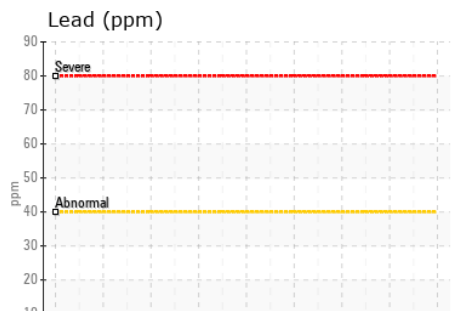
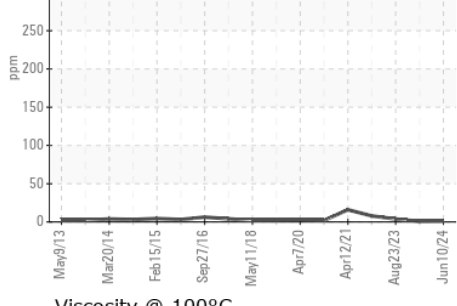
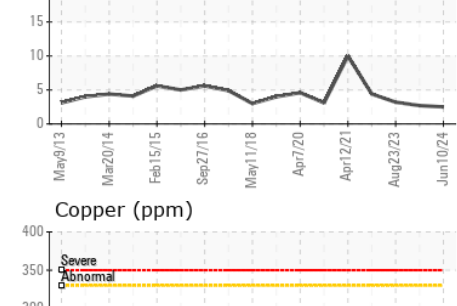
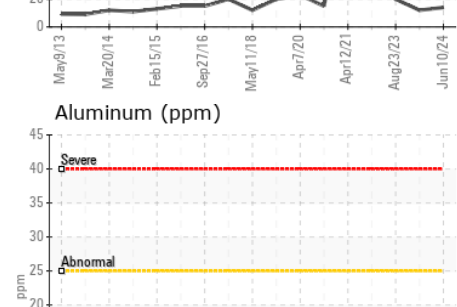
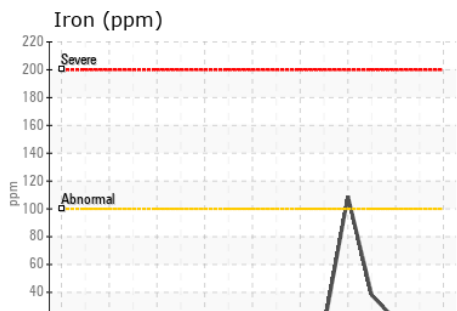
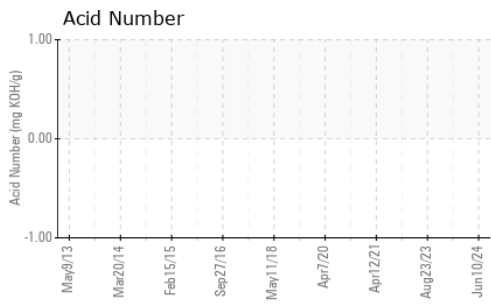
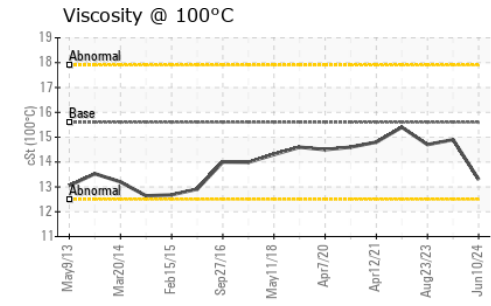
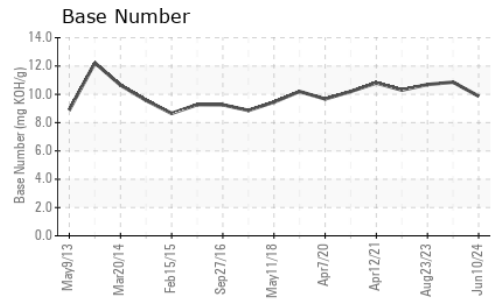
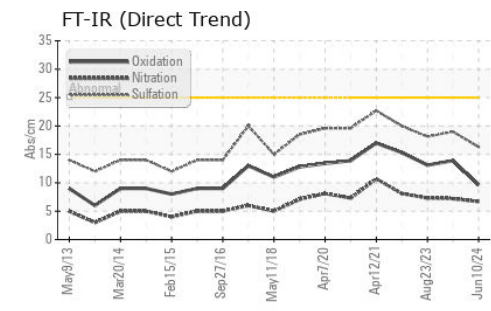
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	4	7
Potassium	ppm	ASTM D5185m	>20	2	0	4
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	1	0.6
Nitration	Abs/cm	*ASTM D7624	>20	6.7	7.2	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.3	19.0	18.1
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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	>0.2	NEG	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		1	0	2
Boron	ppm	ASTM D5185m		24	4	60
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		26	57	67
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		265	875	561
Calcium	ppm	ASTM D5185m		2152	1132	1827
Phosphorus	ppm	ASTM D5185m		964	945	1100
Zinc	ppm	ASTM D5185m		1105	1260	1362
Sulfur	ppm	ASTM D5185m		4180	3016	4389
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.6	13.9	13.1
Base Number (BN)	mg KOH/g	ASTM D2896		9.87	10.86	10.69
Visc @ 100°C	cSt	ASTM D445	15.6	13.3	14.9	14.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0001202
Lab Number : 06220423
Unique Number : 11098620
Test Package : MOB 2 (Additional Tests: TAN Man)

Received : 25 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Angela Borella

S.M. LORUSSO & SONS
 10 GROVE ST
 WEST ROXBURY, MA
 US 02132
 Contact: MARK ERWIN
 merwin@smlorusso.com

T:
F:

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)