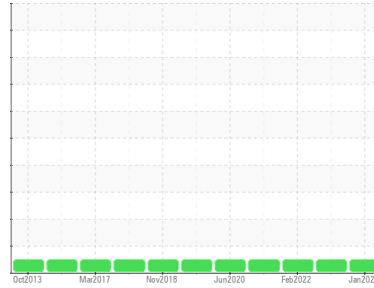


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
JLG ML-1

Component
Diesel Engine

Fluid
FLEETLINE SUPERFLEET XHD 15W40 (3 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0110118	WC0569901	WCDB2123
Sample Date	Client Info	08 Jan 2024	31 Mar 2023	04 Feb 2022
Machine Age	hrs	3600	3330	2999
Oil Age	hrs	260	331	264
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Water	WC Method >0.2	NEG	NEG	NEG
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >150	5	7	7
Chromium	ppm ASTM D5185m >20	<1	1	1
Nickel	ppm ASTM D5185m >2	0	0	<1
Titanium	ppm ASTM D5185m >2	0	0	<1
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >20	3	3	2
Lead	ppm ASTM D5185m >40	<1	0	<1
Copper	ppm ASTM D5185m >30	<1	<1	<1
Tin	ppm ASTM D5185m >15	<1	0	<1
Antimony	ppm ASTM D5185m	---	---	<1
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	10	14	16
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	56	62	63
Manganese	ppm ASTM D5185m	<1	<1	<1
Magnesium	ppm ASTM D5185m	936	970	1014
Calcium	ppm ASTM D5185m	946	1076	1160
Phosphorus	ppm ASTM D5185m	1000	1019	1080
Zinc	ppm ASTM D5185m	1219	1254	1318
Sulfur	ppm ASTM D5185m	3024	3687	2874

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	5	6	8
Sodium	ppm ASTM D5185m	<1	2	2
Potassium	ppm ASTM D5185m >20	2	<1	2

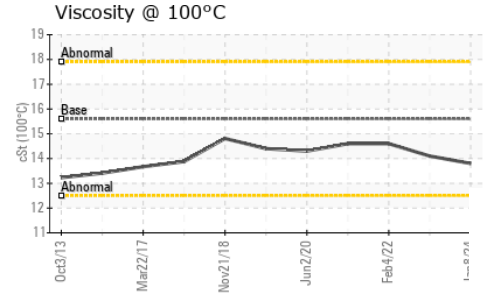
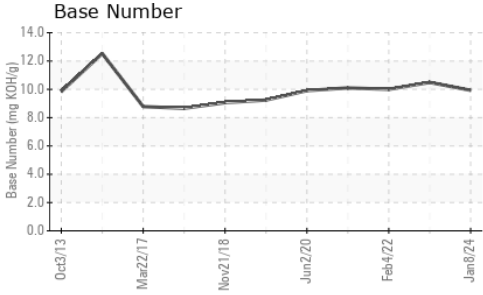
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.1	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	6.1	6.3	6.6
Sulfation	Abs/.1mm *ASTM D7415 >30	17.5	17.7	19.2

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	13.7	14.0	14.9
Base Number (BN)	mg KOH/g ASTM D2896	9.93	10.49	10.0

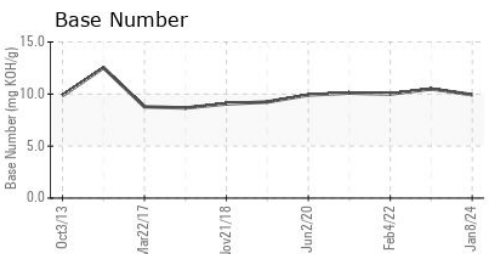
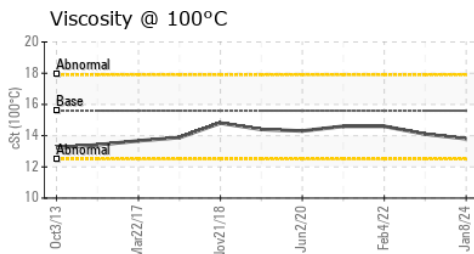
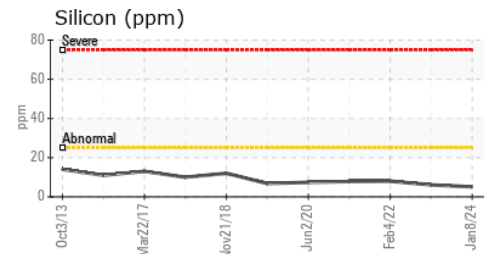
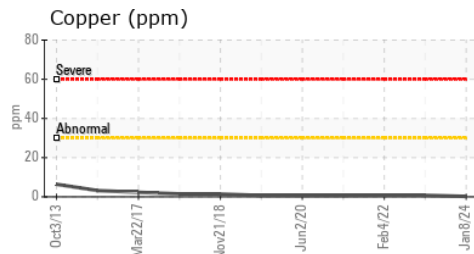
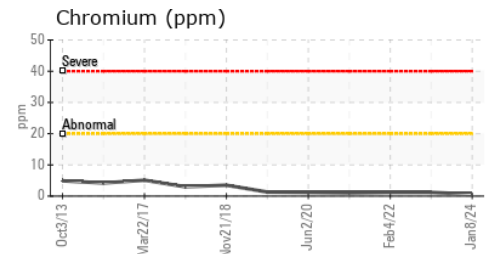
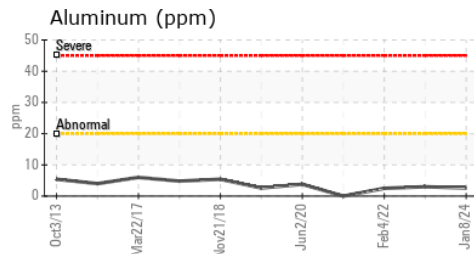
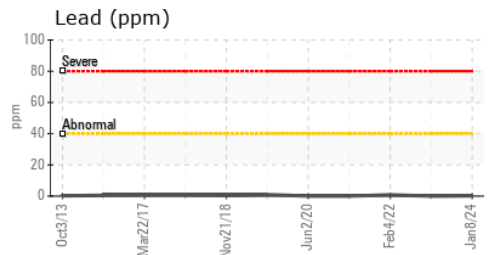
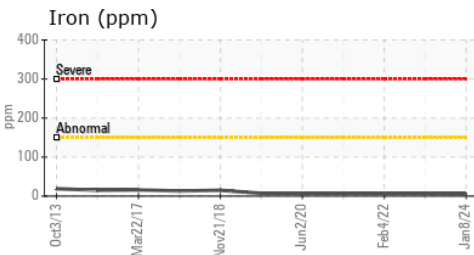
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.6	13.8	14.1	14.6

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0110118
Lab Number : 06079263
Unique Number : 10861354
Test Package : MOB 2

Received : 02 Feb 2024
Tested : 06 Feb 2024
Diagnosed : 06 Feb 2024 - Sean Felton

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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)