



WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
MARGINAL
ABNORMAL

Machine Id
4624L
Component
Diesel Engine
Fluid
MOBIL 15W40 (--- QTS)

RECOMMENDATION

The oil is near the end of its useful service life, recommend schedule an oil change. No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

Aluminum ppm levels are noted. All other component wear rates are normal.

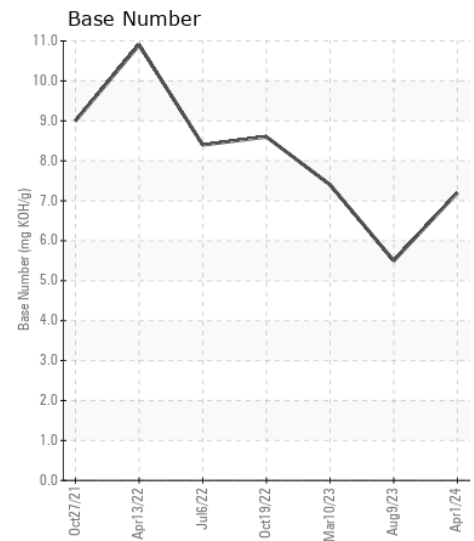
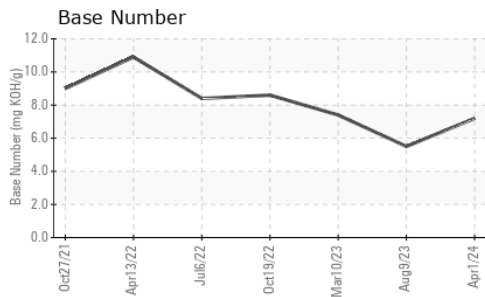
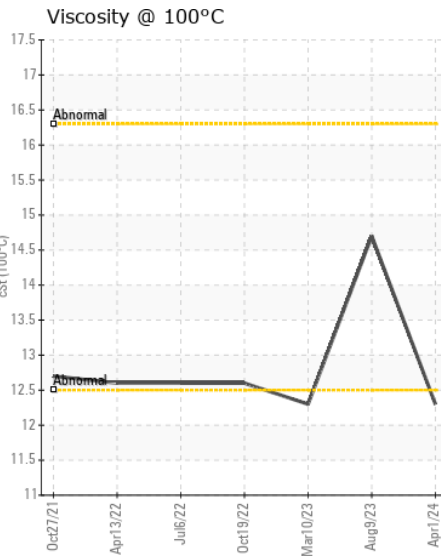
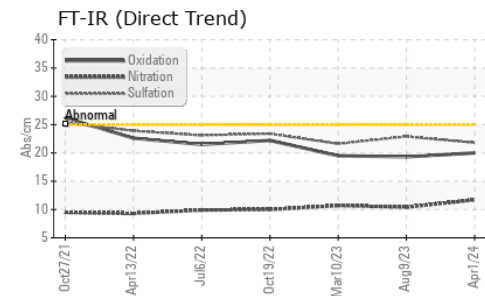
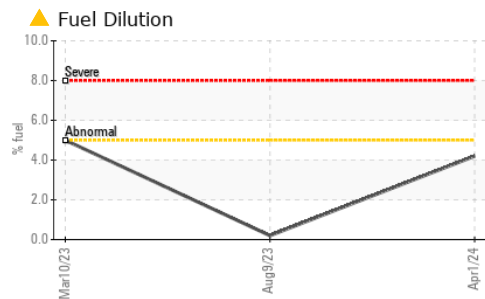
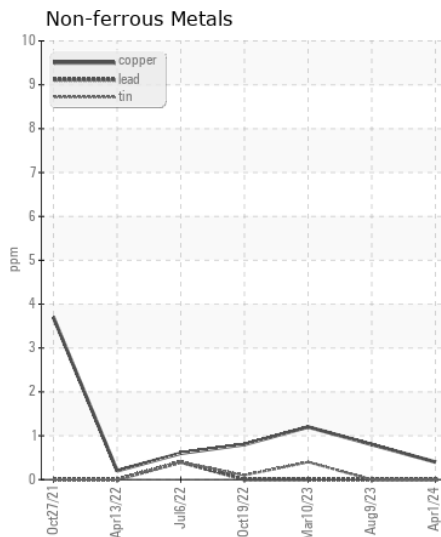
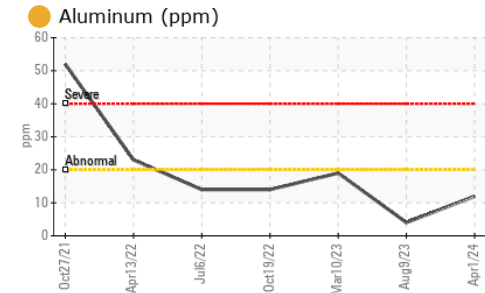
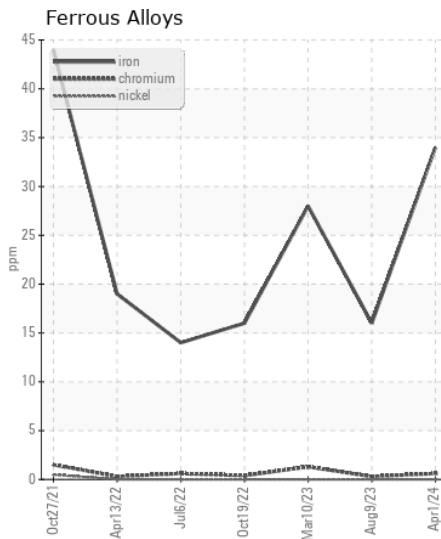
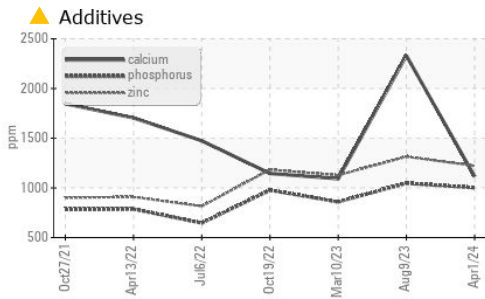
CONTAMINATION

Light fuel dilution occurring. No other contaminants were detected in the oil.

FLUID CONDITION

Magnesium ppm levels are abnormally high. Calcium ppm levels are abnormally low. The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL06175115	IL0028015	IL0028998
Sample Date		Client Info		01 Apr 2024	09 Aug 2023	10 Mar 2023
Machine Age	mls	Client Info		137331	108826	91759
Oil Age	mls	Client Info		0	17000	0
Filter Age	mls	Client Info		0	17000	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	34	16	28
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	12	4	19
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	3	6	5
Potassium	ppm	ASTM D5185m	>20	9	10	24
Fuel	%	ASTM D3524	>5	▲ 4.2	0.2	▲ 5.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	11.7	10.4	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	22.9	21.6
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
Sodium	ppm	ASTM D5185m	>118	2	<1	1
Boron	ppm	ASTM D5185m		0	32	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		63	83	57
Manganese	ppm	ASTM D5185m		<1	0	1
Magnesium	ppm	ASTM D5185m		▲ 963	52	869
Calcium	ppm	ASTM D5185m		▲ 1116	2330	1092
Phosphorus	ppm	ASTM D5185m		1001	1047	858
Zinc	ppm	ASTM D5185m		1222	1314	1127
Sulfur	ppm	ASTM D5185m		3365	4354	2967
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	19.3	19.5
Base Number (BN)	mg KOH/g	ASTM D2896		7.2	5.5	7.4
Visc @ 100°C	cSt	ASTM D445		12.3	14.7	▲ 12.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL06175115
Lab Number : 06175115
Unique Number : 11021168
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 10 May 2024
Tested : 15 May 2024
Diagnosed : 15 May 2024 - Wes Davis

RUSH TRUCK CENTER - CHICAGO IDEALEASE
 4655 SOUTH CENTRAL AVENUE
 CHICAGO, IL
 US 60638

Contact: MIKE LINLEY
 linleym@rushtruckcenters.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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