



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
139-518
Component
Diesel Engine
Fluid
MOBIL 15W40 (44 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0002941	RPL0008135	RPL0008010
Sample Date		Client Info		01 Jul 2024	08 Aug 2023	14 Feb 2023
Machine Age	hrs	Client Info		8205	146225	75056
Oil Age	hrs	Client Info		1510	32897	75056
Filter Age	hrs	Client Info		1510	32897	75056
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	15	38	▲ 117
Chromium	ppm	ASTM D5185m	>20	<1	4	9
Nickel	ppm	ASTM D5185m	>4	<1	1	1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	20	74	120
Lead	ppm	ASTM D5185m	>40	1	<1	14
Copper	ppm	ASTM D5185m	>330	<1	1	39
Tin	ppm	ASTM D5185m	>15	<1	<1	5
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

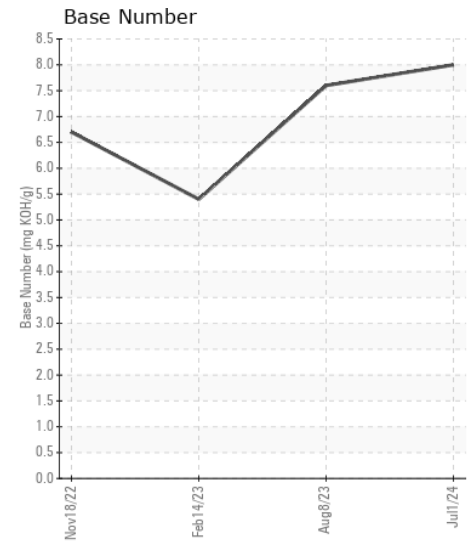
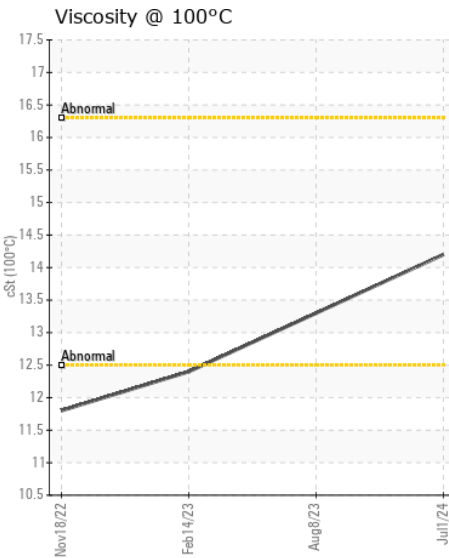
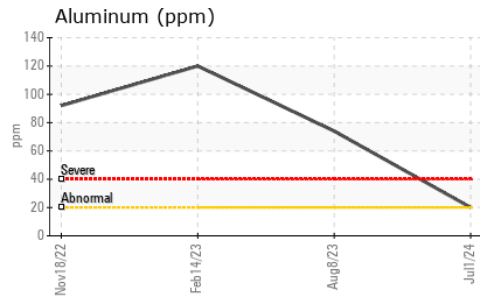
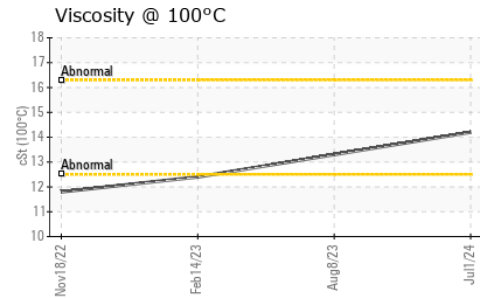
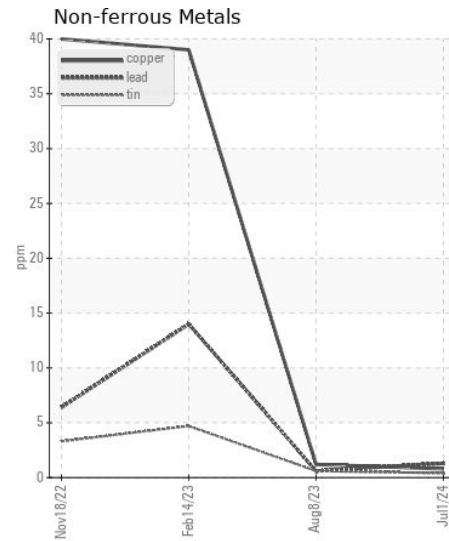
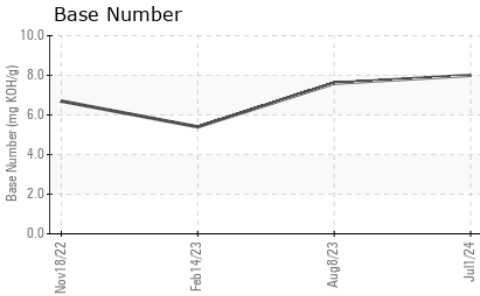
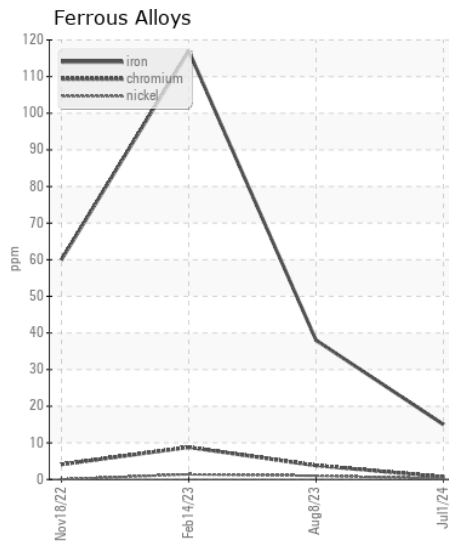
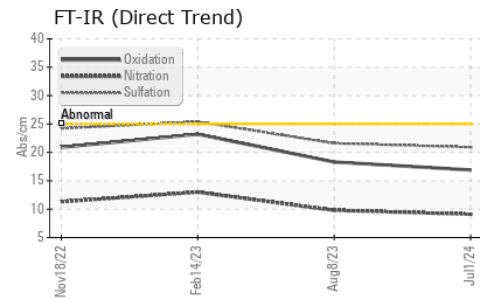
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	4	9	▲ 34
Potassium	ppm	ASTM D5185m	>20	45	193	397
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	0.4	0.4	0.7
Nitration	Abs/cm	*ASTM D7624	>20	9.1	9.8	13.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	21.6	25.4
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	>118	1	4	6
Boron	ppm	ASTM D5185m		0	4	16
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		64	69	22
Manganese	ppm	ASTM D5185m		0	1	7
Magnesium	ppm	ASTM D5185m		998	1091	752
Calcium	ppm	ASTM D5185m		1139	1214	1542
Phosphorus	ppm	ASTM D5185m		1066	1127	756
Zinc	ppm	ASTM D5185m		1294	1403	998
Sulfur	ppm	ASTM D5185m		2845	3762	3144
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	18.3	23.2
Base Number (BN)	mg KOH/g	ASTM D2896		8.0	7.6	5.4
Visc @ 100°C	cSt	ASTM D445		14.2	13.3	12.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0002941
Lab Number : 06234528
Unique Number : 11123362
Test Package : FLEET

RTL PACLEASE - 7017 - Oklahoma City
 8700 West I-40
 Oklahoma City, OK
 US 73128

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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