



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
846-4357
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0022083	RPL0018133	RPL0016902
Sample Date		Client Info		26 Jun 2024	04 Apr 2024	04 Jan 2024
Machine Age	mls	Client Info		183556	298845	308759
Oil Age	mls	Client Info		183556	298845	40000
Filter Age	mls	Client Info		183556	298845	40000
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	64	20	9
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	21	10	6
Lead	ppm	ASTM D5185m	>40	<1	1	1
Copper	ppm	ASTM D5185m	>330	7	1	0
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

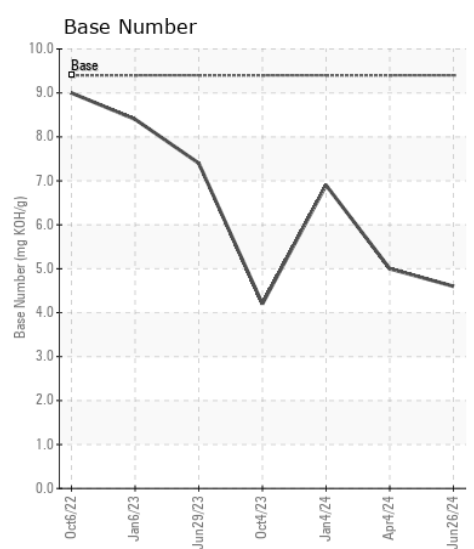
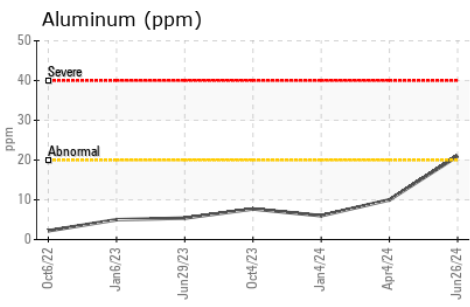
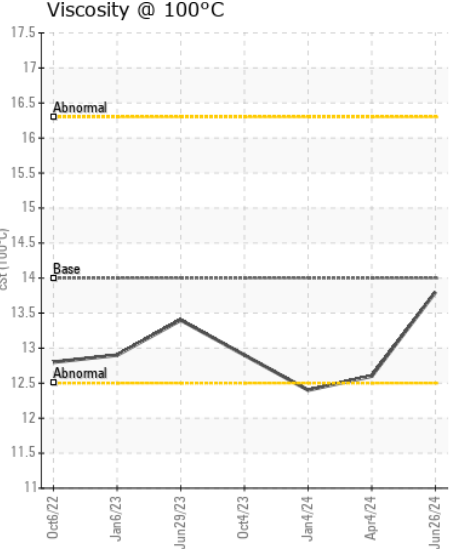
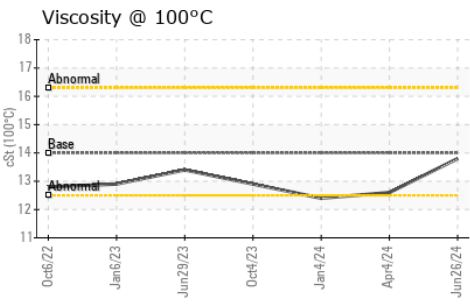
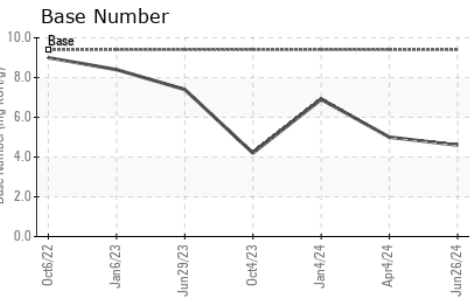
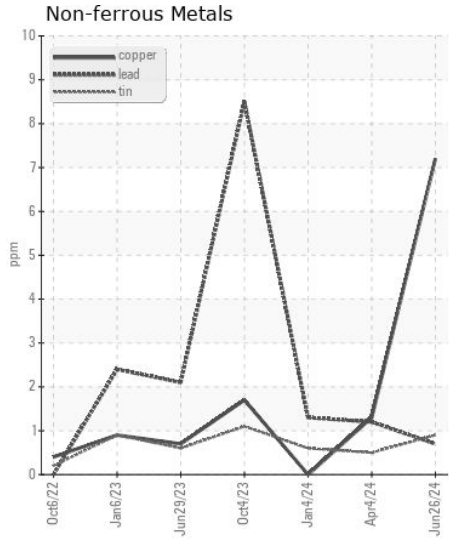
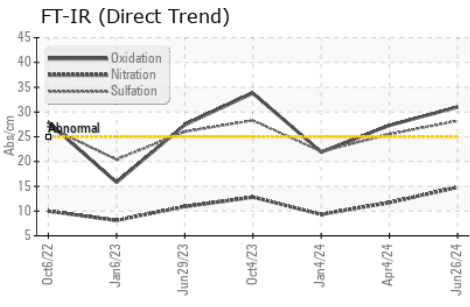
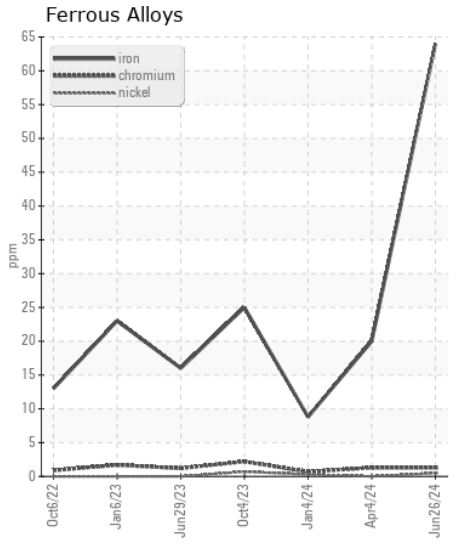
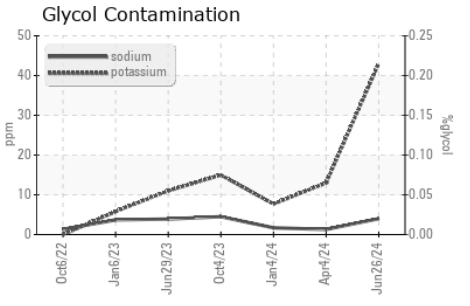
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>25	11	9	7
Potassium	ppm	ASTM D5185m	>20	43	13	8
Fuel		WC Method	>5	<1.0	<1.0	▲ 2.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.1	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	14.8	11.7	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.2	25.5	22.0
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	1	2
Boron	ppm	ASTM D5185m	0	28	32	55
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	77	99	87
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	615	618	599
Calcium	ppm	ASTM D5185m		1497	1548	1352
Phosphorus	ppm	ASTM D5185m		740	735	755
Zinc	ppm	ASTM D5185m		912	890	878
Sulfur	ppm	ASTM D5185m		2457	2951	2747
Oxidation	Abs/.1mm	*ASTM D7414	>25	31.0	27.3	21.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	4.6	5.0	6.9
Visc @ 100°C	cSt	ASTM D445	14	13.8	12.6	12.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0022083
Lab Number : 06234507
Unique Number : 11123341
Test Package : FLEET

Received : 12 Jul 2024
Tested : 12 Jul 2024
Diagnosed : 15 Jul 2024 - Don Baldrige

RTL PACLEASE - 7007 - Fontana
 3121 South Riverside
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 US 92316
 Contact: Rudy Trevizo
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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)