OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
8571822
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

The lead level is abnormal. All other component wear rates are normal.

CONTAMINATION

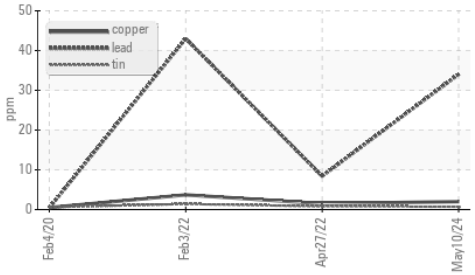
There is no indication of any contamination in the oil.

FLUID CONDITION

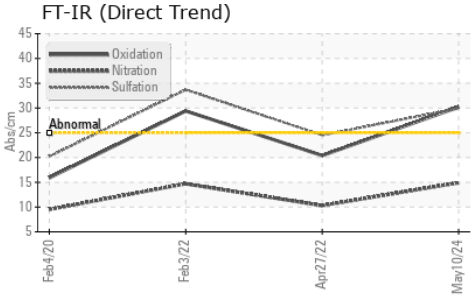
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0017061	RPL0001802	RPL0001795
Sample Date		Client Info		10 May 2024	27 Apr 2022	03 Feb 2022
Machine Age	mls	Client Info		210338	174003	0
Oil Age	mls	Client Info		0	0	25937
Filter Age	mls	Client Info		0	0	25937
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	34	13	39
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	4	1	3
Lead	ppm	ASTM D5185m	>40	▲ 34	8	▲ 43
Copper	ppm	ASTM D5185m	>330	2	2	4
Tin	ppm	ASTM D5185m	>15	<1	<1	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	19	6	8
Potassium	ppm	ASTM D5185m	>20	14	6	15
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	1.3	0.4	1.2
Nitration	Abs/cm	*ASTM D7624	>20	14.9	10.3	14.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.9	24.5	33.7
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		24	9	27
Boron	ppm	ASTM D5185m	0	37	65	69
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	58	29	50
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	741	659	826
Calcium	ppm	ASTM D5185m		1578	1540	1682
Phosphorus	ppm	ASTM D5185m		858	789	844
Zinc	ppm	ASTM D5185m		1019	903	967
Sulfur	ppm	ASTM D5185m		3093	2567	2675
Oxidation	Abs/.1mm	*ASTM D7414	>25	30.2	20.4	29.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	4.8	9.9	6.1
Visc @ 100°C	cSt	ASTM D445	14	14.7	14.2	14.9

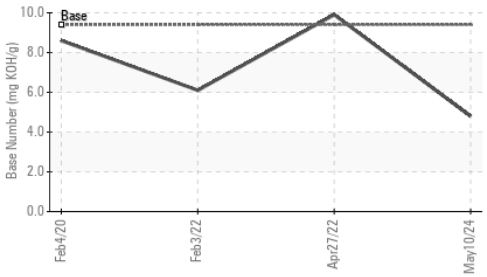
Non-ferrous Metals



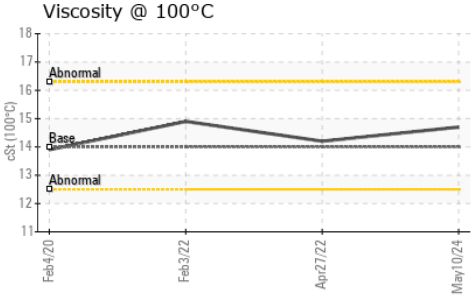
FT-IR (Direct Trend)



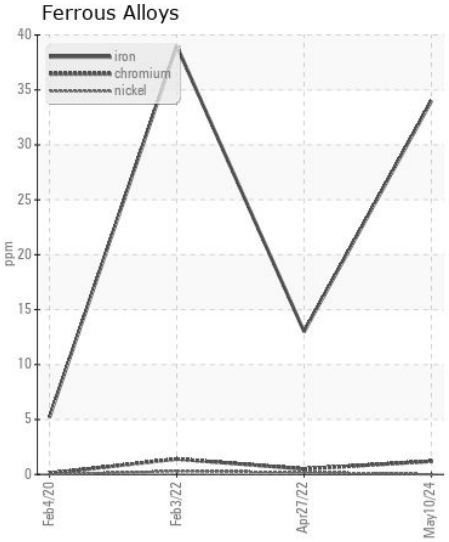
Base Number



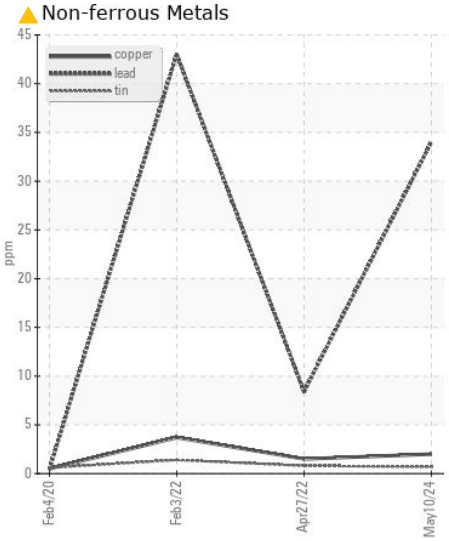
Viscosity @ 100°C



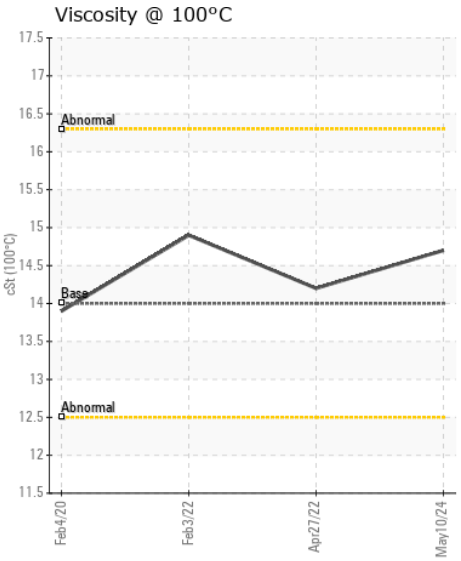
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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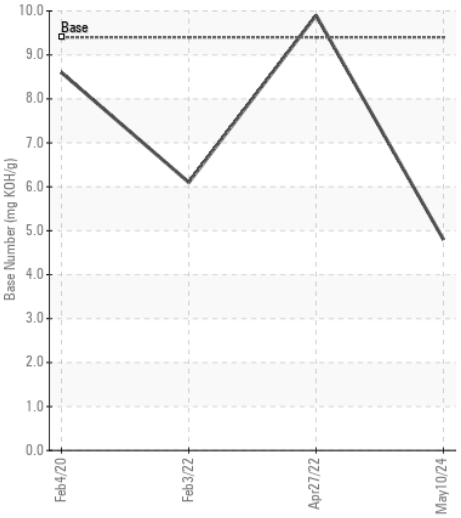

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0017061
Lab Number : 06187267
Unique Number : 11044019
Test Package : FLEET

Received : 22 May 2024
Tested : 23 May 2024
Diagnosed : 24 May 2024 - Sean Felton

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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