OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	MARGINAL

Machine Id
8464345
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.

WEAR

All component wear rates are normal.

CONTAMINATION

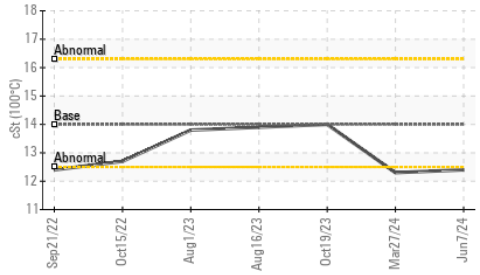
There is no indication of any contamination in the oil.

FLUID CONDITION

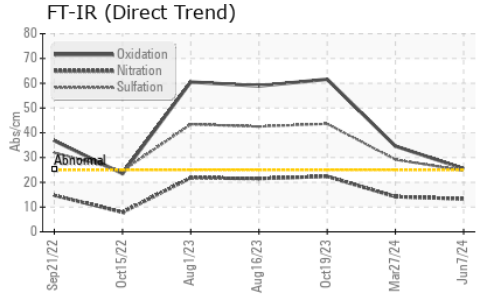
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0020514	RPL0018072	RPL0015093
Sample Date		Client Info		07 Jun 2024	27 Mar 2024	19 Oct 2023
Machine Age	mls	Client Info		156138	150319	137240
Oil Age	mls	Client Info		11888	13079	28553
Filter Age	mls	Client Info		11888	13079	28553
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	31	19	▲ 229
Chromium	ppm	ASTM D5185m	>20	<1	1	6
Nickel	ppm	ASTM D5185m	>4	<1	1	2
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	24	18	▲ 122
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	26	19	21
Tin	ppm	ASTM D5185m	>15	<1	1	2
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	11	8	▲ 42
Potassium	ppm	ASTM D5185m	>20	36	28	▲ 262
Fuel	%	ASTM D3524	>5	<1.0	▲ 4.6	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.8	0.9	2.2
Nitration	Abs/cm	*ASTM D7624	>20	13.3	14.2	22.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.7	29.2	43.6
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		3	3	10
Boron	ppm	ASTM D5185m	0	31	57	19
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	120	102	37
Manganese	ppm	ASTM D5185m		0	1	3
Magnesium	ppm	ASTM D5185m	0	698	594	530
Calcium	ppm	ASTM D5185m		1421	1259	1557
Phosphorus	ppm	ASTM D5185m		789	695	705
Zinc	ppm	ASTM D5185m		952	830	948
Sulfur	ppm	ASTM D5185m		2946	2970	2156
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.5	34.6	61.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	4.9	▲ 3.8	▲ 1.3
Visc @ 100°C	cSt	ASTM D445	14	▲ 12.4	▲ 12.3	14.0

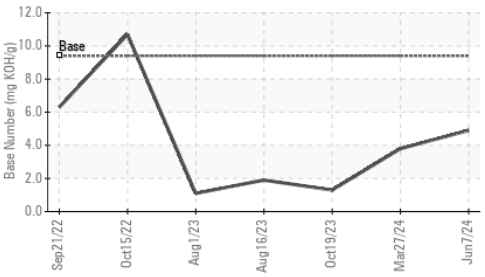
Viscosity @ 100°C



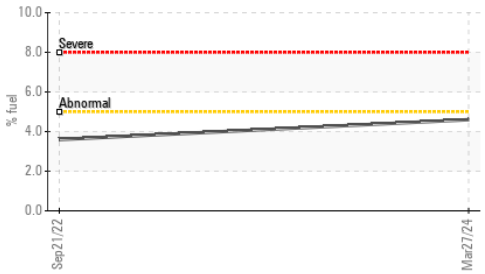
FT-IR (Direct Trend)



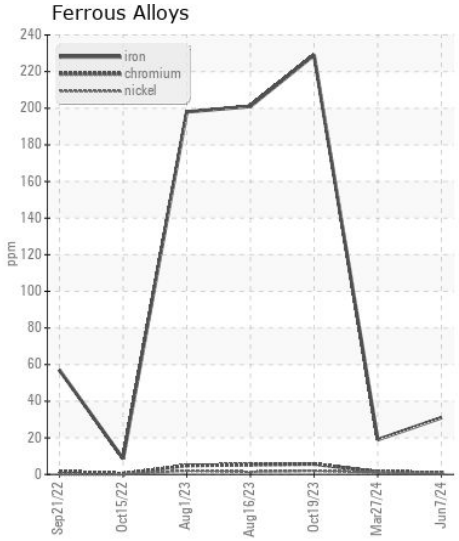
Base Number



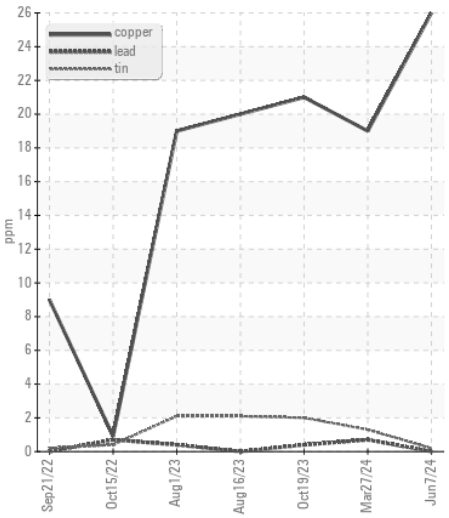
Fuel Dilution



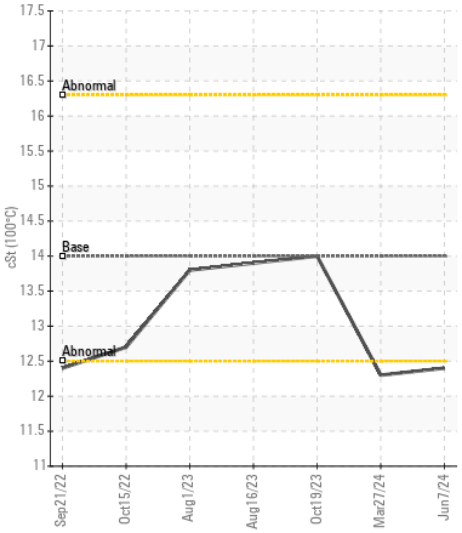
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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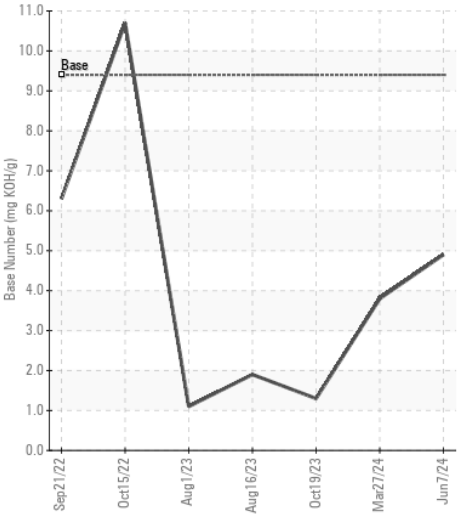

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0020514
Lab Number : 06214193
Unique Number : 11087057
Test Package : FLEET (Additional Tests: FUELDILUTION, PercentFuel)

Received : 19 Jun 2024
Tested : 21 Jun 2024
Diagnosed : 21 Jun 2024 - Jonathan Hester

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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