OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
8464472
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

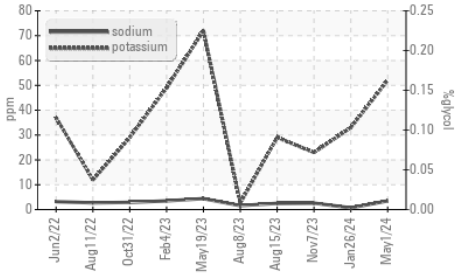
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

FLUID CONDITION

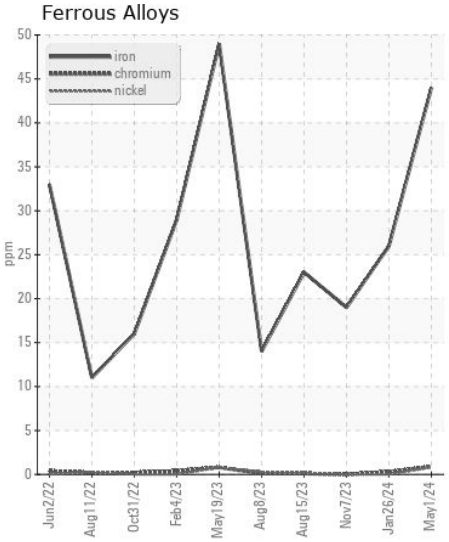
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**RPL0018144**	RPL0016960	RPL0016115
Sample Date		Client Info		**01 May 2024**	26 Jan 2024	07 Nov 2023
Machine Age	mls	Client Info		**0**	0	0
Oil Age	mls	Client Info		**63008**	30467	30467
Filter Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Filter Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	**44**	26	19
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	0
Nickel	ppm	ASTM D5185m	>4	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m	>3	**1**	0	0
Aluminum	ppm	ASTM D5185m	>20	**26**	17	13
Lead	ppm	ASTM D5185m	>40	**2**	<1	<1
Copper	ppm	ASTM D5185m	>330	**7**	4	3
Tin	ppm	ASTM D5185m	>15	**2**	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
Silicon	ppm	ASTM D5185m	>25	**10**	9	9
Potassium	ppm	ASTM D5185m	>20	**52**	33	23
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	**0.5**	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	**12.4**	11.7	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	**25.6**	24.0	23.0
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
Sodium	ppm	ASTM D5185m		**4**	<1	3
Boron	ppm	ASTM D5185m	0	**28**	23	38
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**57**	57	55
Manganese	ppm	ASTM D5185m		**1**	<1	<1
Magnesium	ppm	ASTM D5185m	0	**615**	525	588
Calcium	ppm	ASTM D5185m		**1811**	1614	1695
Phosphorus	ppm	ASTM D5185m		**772**	767	828
Zinc	ppm	ASTM D5185m		**1068**	939	1026
Sulfur	ppm	ASTM D5185m		**2870**	2485	2706
Oxidation	Abs/.1mm	*ASTM D7414	>25	**28.0**	26.1	23.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	**4.9**	6.0	7.3
Visc @ 100°C	cSt	ASTM D445	14	**14.4**	14.0	14.1

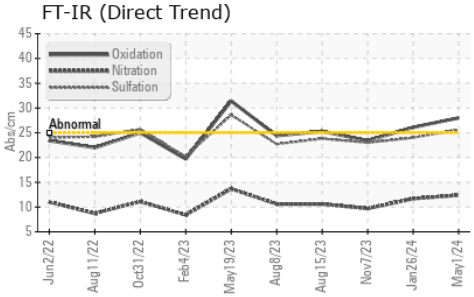
Glycol Contamination



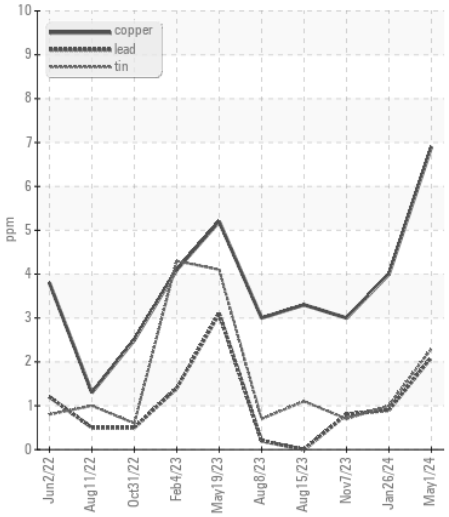
Ferrous Alloys



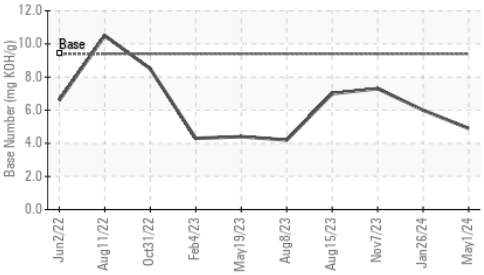
FT-IR (Direct Trend)



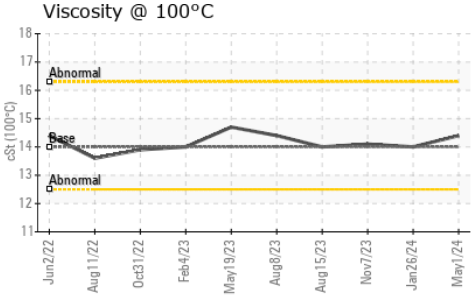
Non-ferrous Metals



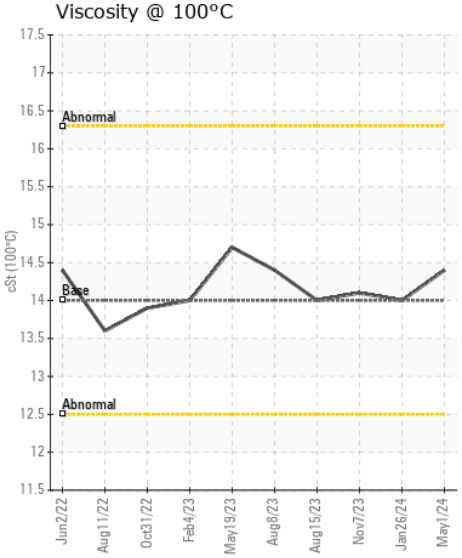
Base Number



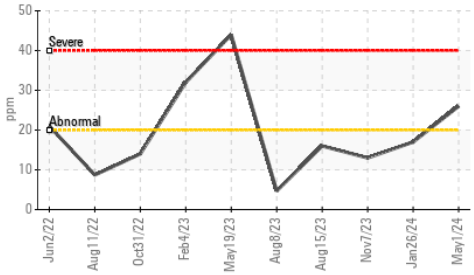
Viscosity @ 100°C



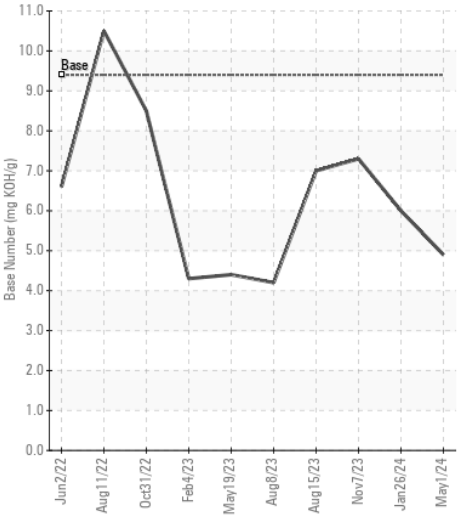
Viscosity @ 100°C



Aluminum (ppm)



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0018144
Lab Number : 06190278
Unique Number : 11047030
Test Package : FLEET

Received : 24 May 2024
Tested : 25 May 2024
Diagnosed : 29 May 2024 - Don Baldridge

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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