OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
8574251
Component
Diesel Engine
Fluid
MOBIL DELVAC EXTREME 15W40 (44 QTS)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

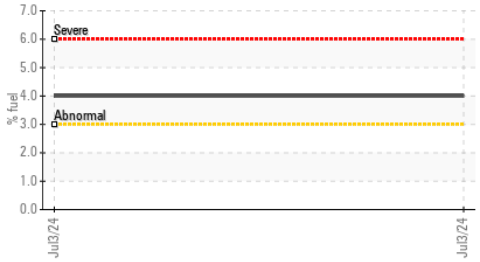
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

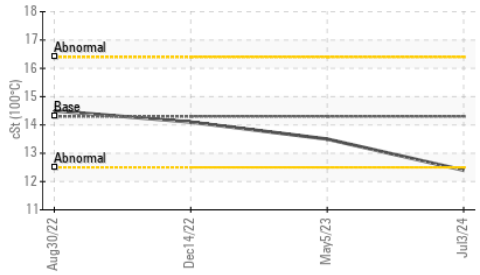
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0002958	RPL0008174	RPL0003030
Sample Date		Client Info		03 Jul 2024	05 May 2023	14 Dec 2022
Machine Age	hrs	Client Info		13037	10675	249355
Oil Age	hrs	Client Info		274	946	45043
Filter Age	hrs	Client Info		274	946	45043
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>165	16	31	54
Chromium	ppm	ASTM D5185m	>5	<1	1	2
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	5	7
Lead	ppm	ASTM D5185m	>150	<1	12	13
Copper	ppm	ASTM D5185m	>90	<1	<1	2
Tin	ppm	ASTM D5185m	>5	<1	<1	2
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	>35	6	7	7
Potassium	ppm	ASTM D5185m	>20	9	6	17
Fuel	%	ASTM D3524	>3.0	▲ 4.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.5	0.6	0.8
Nitration	Abs/cm	*ASTM D7624	>20	10.3	12.4	13.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	27.2	28.6
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		2	0	<1
Boron	ppm	ASTM D5185m		26	87	85
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		51	133	73
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		535	683	959
Calcium	ppm	ASTM D5185m		1597	1641	1291
Phosphorus	ppm	ASTM D5185m		802	744	1082
Zinc	ppm	ASTM D5185m		961	945	1322
Sulfur	ppm	ASTM D5185m		2409	2856	3220
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.0	24.4	27.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	8.0	6.4	5.0
Visc @ 100°C	cSt	ASTM D445	14.3	▲ 12.4	13.5	14.1

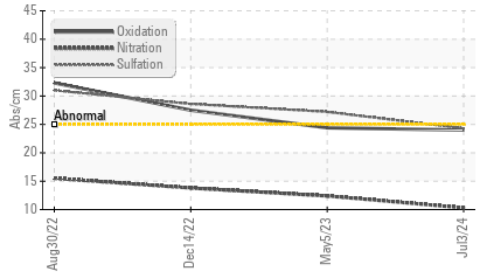
Fuel Dilution



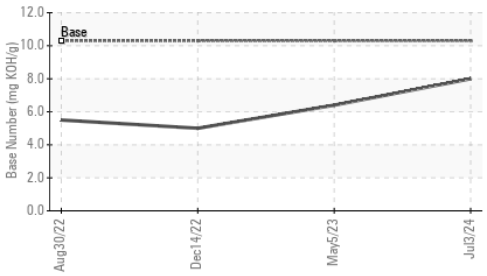
Viscosity @ 100°C



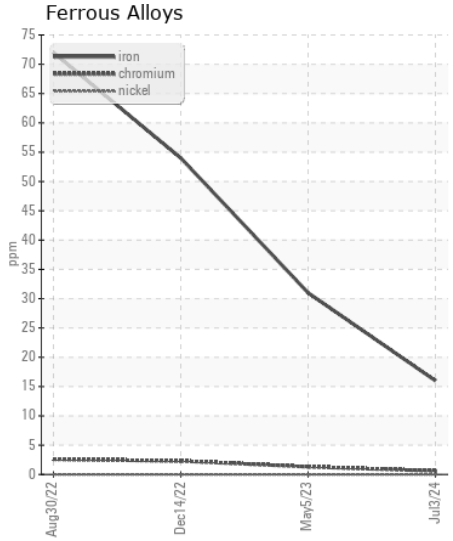
FT-IR (Direct Trend)



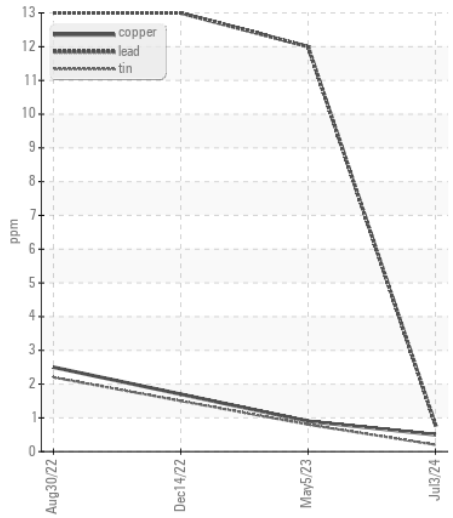
Base Number



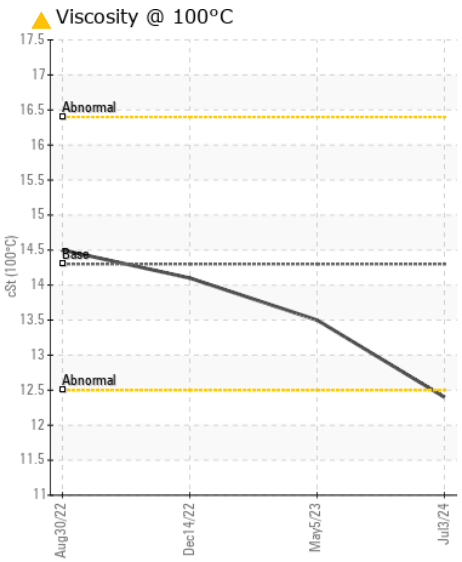
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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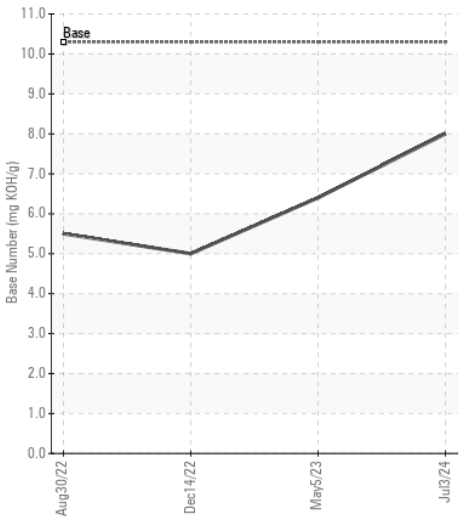

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0002958
Lab Number : 06234526
Unique Number : 11123360
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 12 Jul 2024
Tested : 16 Jul 2024
Diagnosed : 16 Jul 2024 - Wes Davis

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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