



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
8464387
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 15W40 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. 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. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0020558	RPL0016169	RPL0011336
Sample Date		Client Info		12 Jun 2024	24 Oct 2023	29 Sep 2023
Machine Age	mls	Client Info		237228	212106	207806
Oil Age	mls	Client Info		25122	212106	34437
Filter Age	mls	Client Info		25122	212106	34437
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	24	33	24
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	7	7	8
Lead	ppm	ASTM D5185m	>40	6	7	8
Copper	ppm	ASTM D5185m	>330	1	1	2
Tin	ppm	ASTM D5185m	>15	1	2	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

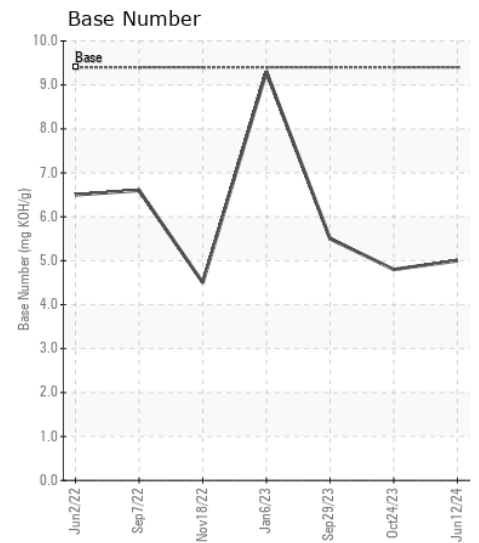
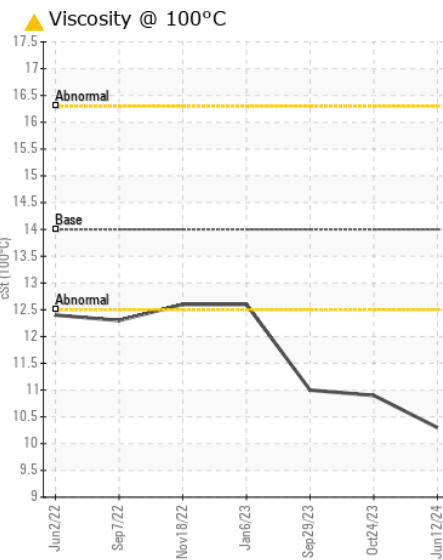
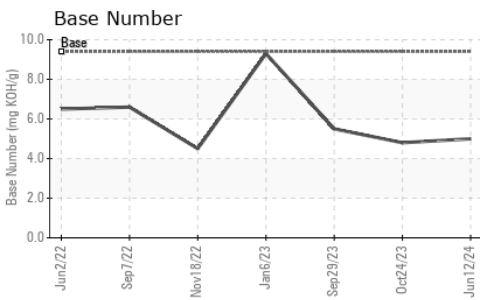
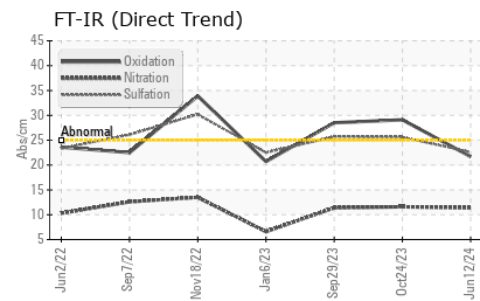
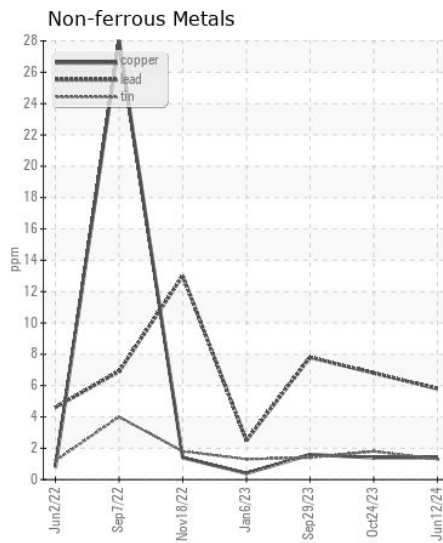
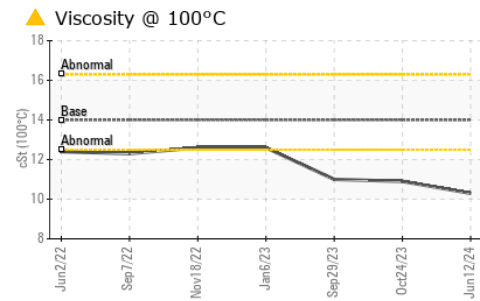
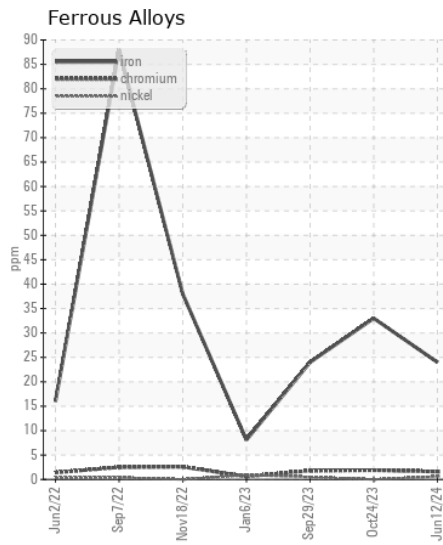
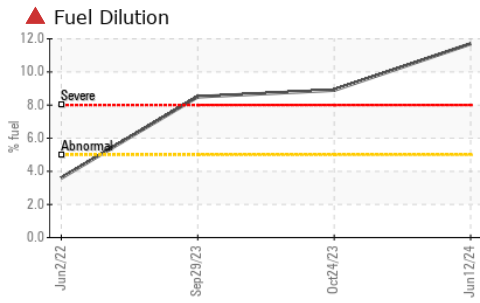
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>25	7	8	6
Potassium	ppm	ASTM D5185m	>20	18	25	23
Fuel	%	ASTM D3524	>5	▲ 11.7	▲ 8.9	▲ 8.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	11.4	11.6	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	25.6	25.7
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

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.

Sodium	ppm	ASTM D5185m		<1	6	4
Boron	ppm	ASTM D5185m	0	38	22	21
Barium	ppm	ASTM D5185m	0	1	20	0
Molybdenum	ppm	ASTM D5185m	0	99	39	37
Manganese	ppm	ASTM D5185m		1	1	1
Magnesium	ppm	ASTM D5185m	0	550	442	457
Calcium	ppm	ASTM D5185m		1253	1397	1516
Phosphorus	ppm	ASTM D5185m		676	613	643
Zinc	ppm	ASTM D5185m		803	764	839
Sulfur	ppm	ASTM D5185m		2612	2498	2084
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.7	29.1	28.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	5.0	4.8	5.5
Visc @ 100°C	cSt	ASTM D445	14	▲ 10.3	▲ 10.9	▲ 11.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0020558 **Received** : 25 Jun 2024
Lab Number : 06219318 **Tested** : 27 Jun 2024
Unique Number : 11097515 **Diagnosed** : 27 Jun 2024 - Wes Davis
Test Package : FLEET (Additional Tests: PercentFuel)

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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)