



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
91059
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (10 GAL)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		SBP0005449	SBP0005451	---
Sample Date		Client Info		27 May 2024	02 Dec 2023	---
Machine Age	mls	Client Info		0	300676	---
Oil Age	mls	Client Info		0	49010	---
Filter Age	mls	Client Info		0	49010	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				ABNORMAL	MARGINAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	34	28	---
Chromium	ppm	ASTM D5185m	>5	2	1	---
Nickel	ppm	ASTM D5185m	>2	1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	1	0	---
Aluminum	ppm	ASTM D5185m	>30	6	4	---
Lead	ppm	ASTM D5185m	>30	<1	<1	---
Copper	ppm	ASTM D5185m	>150	26	5	---
Tin	ppm	ASTM D5185m	>5	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

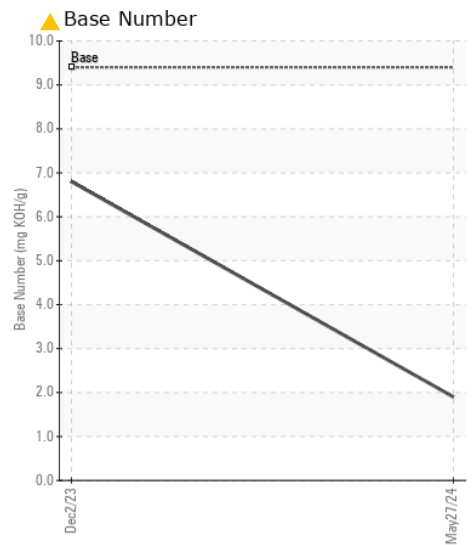
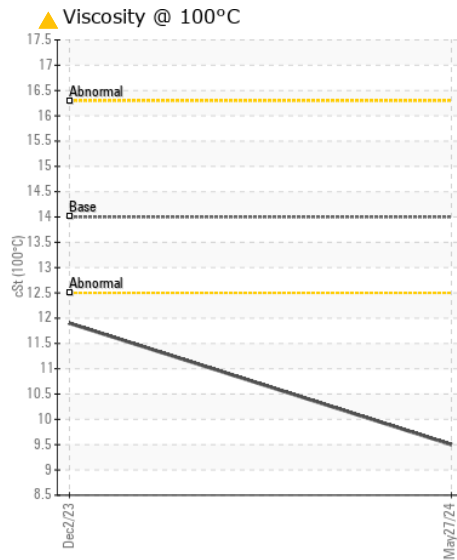
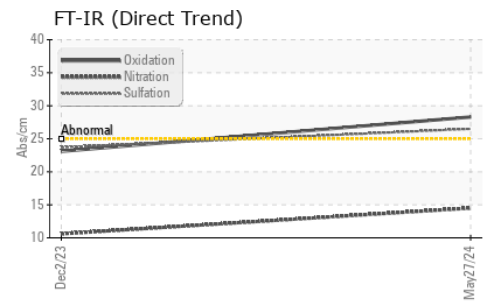
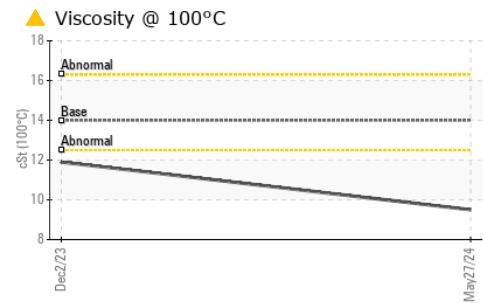
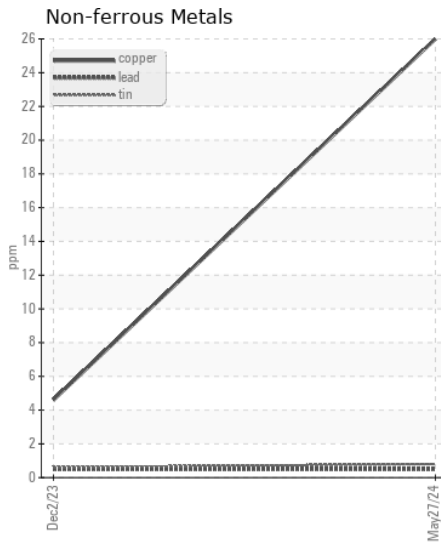
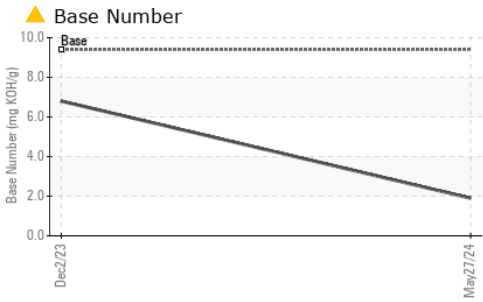
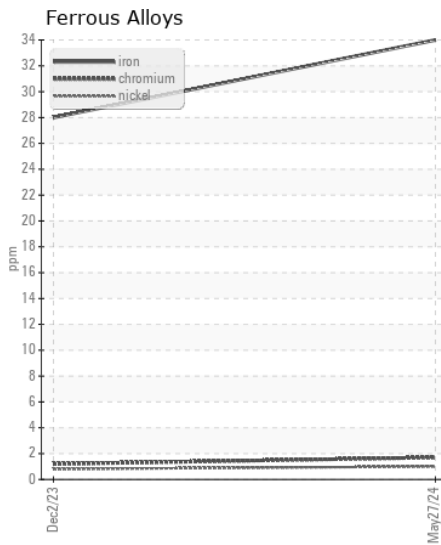
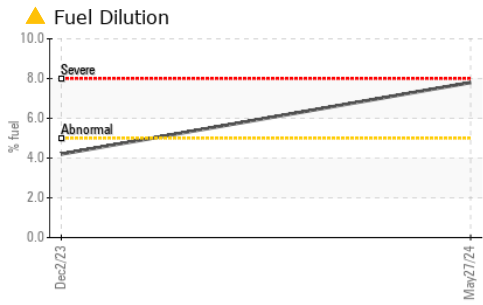
There is a moderate amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>20	12	15	---
Potassium	ppm	ASTM D5185m	>20	6	4	---
Fuel	%	ASTM D3524	>5	▲ 7.8	▲ 4.2	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	14.5	10.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.5	23.7	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The BN level is low.

Sodium	ppm	ASTM D5185m		4	0	---
Boron	ppm	ASTM D5185m	0	19	12	---
Barium	ppm	ASTM D5185m	0	2	0	---
Molybdenum	ppm	ASTM D5185m	0	213	55	---
Manganese	ppm	ASTM D5185m		1	<1	---
Magnesium	ppm	ASTM D5185m	0	415	772	---
Calcium	ppm	ASTM D5185m		1065	1231	---
Phosphorus	ppm	ASTM D5185m		556	813	---
Zinc	ppm	ASTM D5185m		669	1130	---
Sulfur	ppm	ASTM D5185m		1653	2443	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.3	23.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	▲ 1.9	6.8	---
Visc @ 100°C	cSt	ASTM D445	14	▲ 9.5	11.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0005449 **Received** : 28 May 2024
Lab Number : 06192014 **Tested** : 30 May 2024
Unique Number : 11048766 **Diagnosed** : 30 May 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Sapp Bros. Fleet - Columbus Location

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)

US
 Contact: Service Manager

T:
 F: