



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL



Machine Id
93078
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (10 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		SBP0001947	SBP0004864	SBP0003940
Sample Date		Client Info		29 Apr 2024	25 Aug 2023	27 Apr 2023
Machine Age	mls	Client Info		124403	107440	97544
Oil Age	mls	Client Info		10000	10000	12143
Filter Age	mls	Client Info		10000	10000	12143
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

Cylinder, crank, or cam shaft wear is indicated.

Iron	ppm	ASTM D5185m	>80	▲ 99	31	31
Chromium	ppm	ASTM D5185m	>5	5	2	2
Nickel	ppm	ASTM D5185m	>2	2	<1	<1
Titanium	ppm	ASTM D5185m		73	15	76
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	8	3	4
Lead	ppm	ASTM D5185m	>30	2	0	0
Copper	ppm	ASTM D5185m	>150	4	3	2
Tin	ppm	ASTM D5185m	>5	2	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

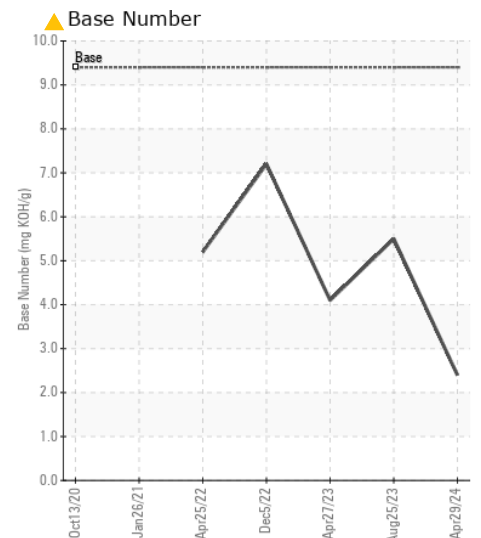
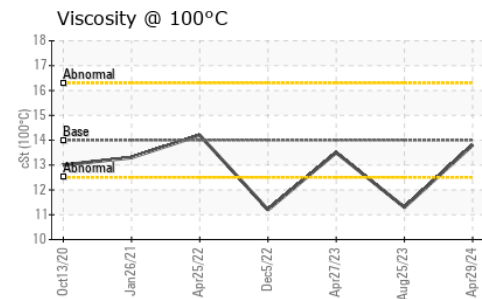
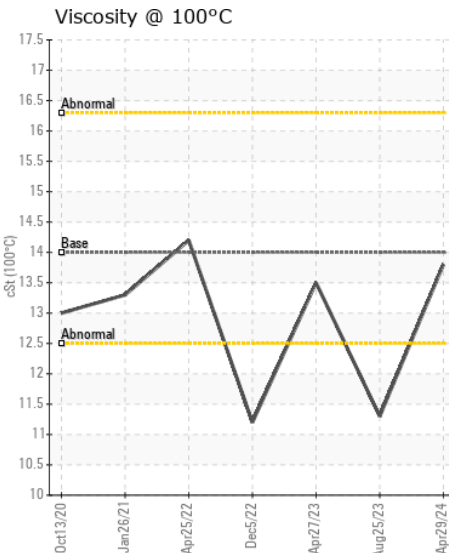
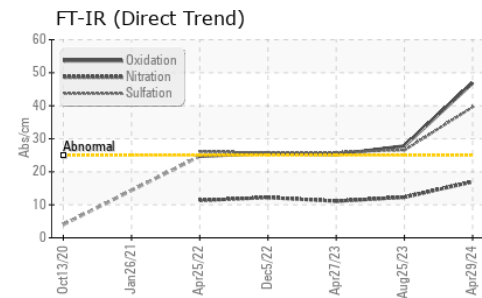
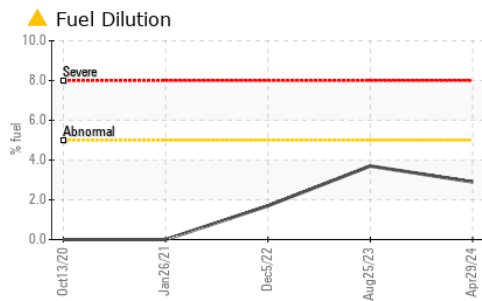
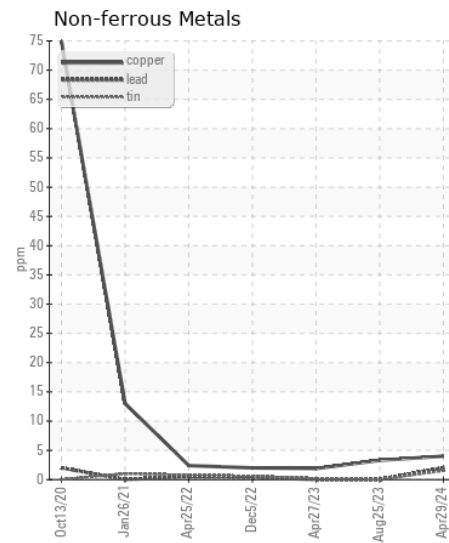
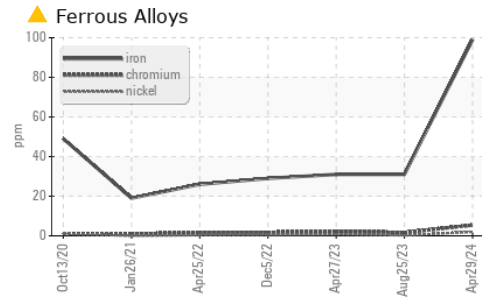
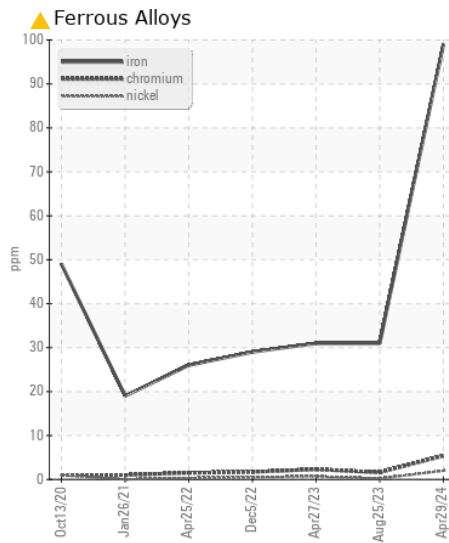
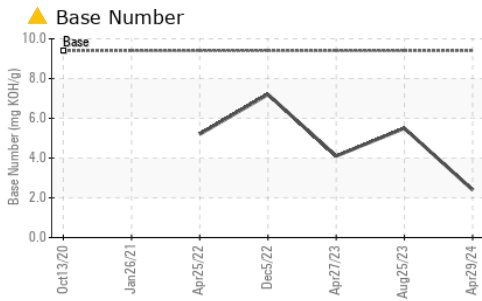
Light fuel dilution occurring.

Silicon	ppm	ASTM D5185m	>20	18	6	9
Potassium	ppm	ASTM D5185m	>20	15	8	5
Fuel	%	ASTM D3524	>5	▲ 2.9	▲ 3.7	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	17.0	12.3	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	39.6	26.5	25.9
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 level is low. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		9	3	3
Boron	ppm	ASTM D5185m	0	38	0	47
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	20	50	15
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	0	483	859	488
Calcium	ppm	ASTM D5185m		1561	1181	1741
Phosphorus	ppm	ASTM D5185m		924	962	994
Zinc	ppm	ASTM D5185m		1168	1213	1231
Sulfur	ppm	ASTM D5185m		3732	3615	4330
Oxidation	Abs/.1mm	*ASTM D7414	>25	46.9	27.8	25.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	▲ 2.4	5.5	4.1
Visc @ 100°C	cSt	ASTM D445	14	13.8	▲ 11.3	13.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0001947
Lab Number : 06178059
Unique Number : 11029385
Test Package : FLEET (Additional Tests: PercentFuel)

Sapp Bros. Fleet - Lincoln Location

Received : 13 May 2024
Tested : 17 May 2024
Diagnosed : 17 May 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)

US
 Contact: Service Manager

T:
 F: