OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
93060-3060
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (10 GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

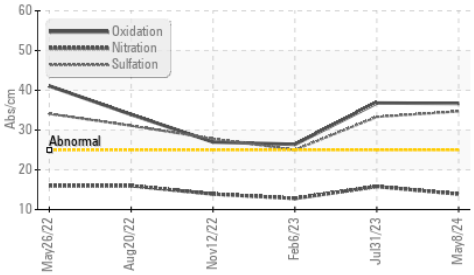
Sodium and/or potassium levels are high.

FLUID CONDITION

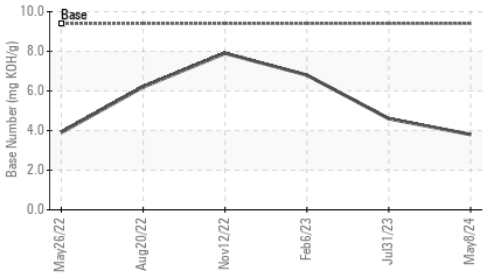
The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		SBP0007538	SBP0002009	SBP0001883
Sample Date		Client Info		08 May 2024	31 Jul 2023	06 Feb 2023
Machine Age	mls	Client Info		30776	4849	68155
Oil Age	mls	Client Info		10000	4849	10000
Filter Age	mls	Client Info		10000	4849	10000
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>80	37	56	26
Chromium	ppm	ASTM D5185m	>5	1	2	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		89	2	11
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>30	4	4	4
Lead	ppm	ASTM D5185m	>30	2	2	<1
Copper	ppm	ASTM D5185m	>150	2	3	1
Tin	ppm	ASTM D5185m	>5	1	<1	<1
Vanadium	ppm	ASTM D5185m		1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	10	8	6
Potassium	ppm	ASTM D5185m	>20	▲ 145	26	26
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.9	1.2	0.8
Nitration	Abs/cm	*ASTM D7624	>20	13.9	15.8	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	34.7	33.3	25.0
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		▲ 142	26	24
Boron	ppm	ASTM D5185m	0	19	13	32
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	14	57	55
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	421	1004	620
Calcium	ppm	ASTM D5185m		1656	1391	1674
Phosphorus	ppm	ASTM D5185m		941	1049	839
Zinc	ppm	ASTM D5185m		1185	1311	1032
Sulfur	ppm	ASTM D5185m		3948	3513	3278
Oxidation	Abs/.1mm	*ASTM D7414	>25	36.7	36.8	26.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	3.8	4.6	6.8
Visc @ 100°C	cSt	ASTM D445	14	13.8	15.1	13.7

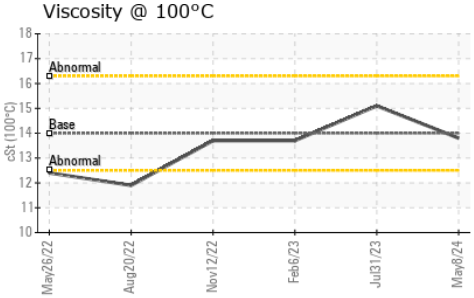
FT-IR (Direct Trend)



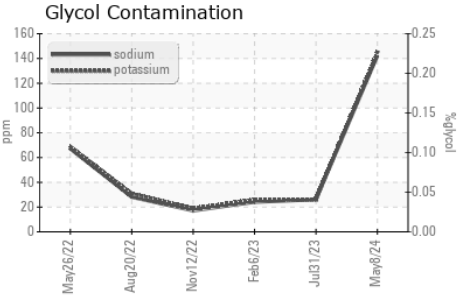
Base Number



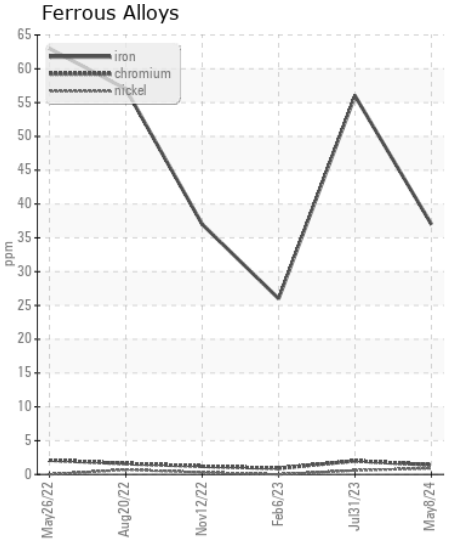
Viscosity @ 100°C



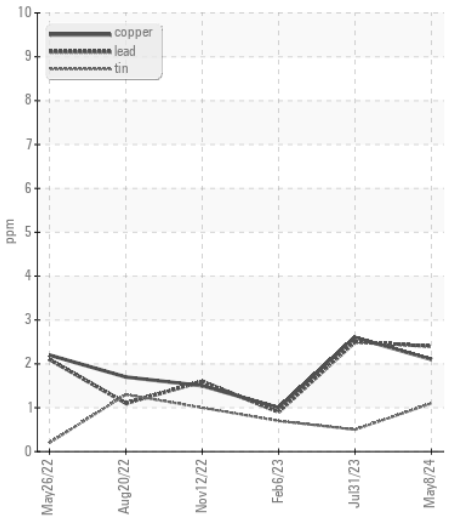
Glycol Contamination



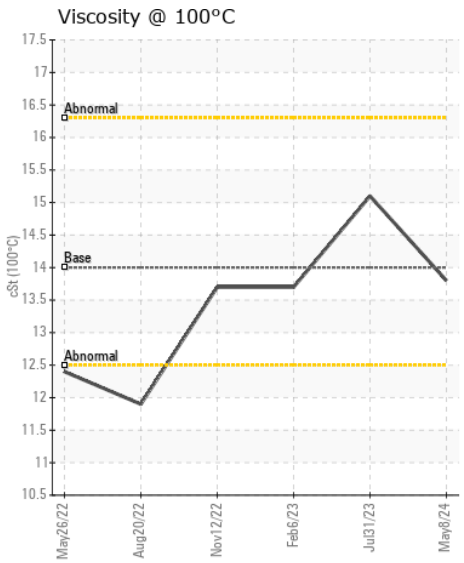
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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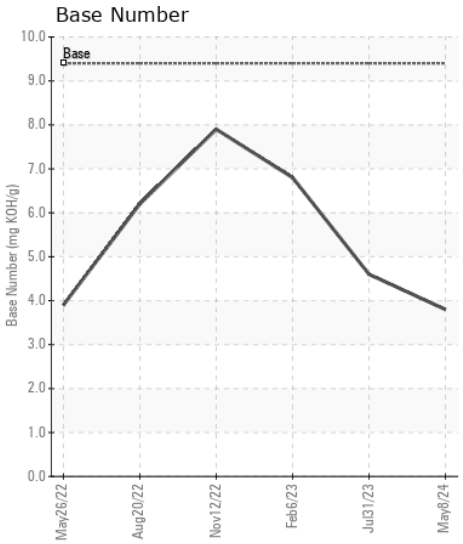

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0007538
Lab Number : 06178061
Unique Number : 11029387
Test Package : FLEET (Additional Tests: Glycol)

Received : 13 May 2024
Tested : 17 May 2024
Diagnosed : 17 May 2024 - Jonathan Hester

Sapp Bros. Fleet - Lincoln Location
,
US
Contact: Service Manager
T:
F:

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)