OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Machine Id
459607
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

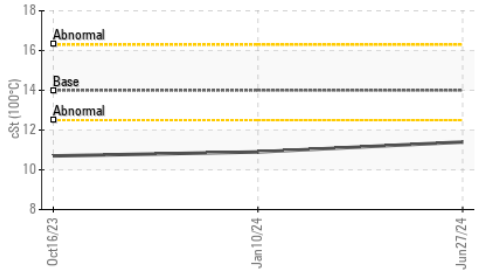
Light fuel dilution occurring.

FLUID CONDITION

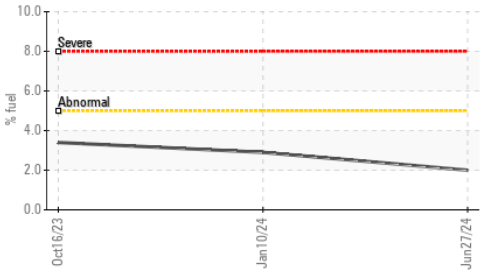
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0021262	RPL0017232	RPL0015416
Sample Date		Client Info		27 Jun 2024	10 Jan 2024	16 Oct 2023
Machine Age	mls	Client Info		18038	7912	3321
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	66	23	15
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	11	10	9
Lead	ppm	ASTM D5185m	>40	3	2	2
Copper	ppm	ASTM D5185m	>330	32	27	17
Tin	ppm	ASTM D5185m	>15	2	2	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	47	44	42
Potassium	ppm	ASTM D5185m	>20	16	5	7
Fuel	%	ASTM D3524	>5	▲ 2.0	▲ 2.9	▲ 3.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.0	9.4	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	20.2	18.4
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		7	1	4
Boron	ppm	ASTM D5185m	0	40	61	76
Barium	ppm	ASTM D5185m	0	5	5	4
Molybdenum	ppm	ASTM D5185m	0	16	13	12
Manganese	ppm	ASTM D5185m		6	4	4
Magnesium	ppm	ASTM D5185m	0	731	683	661
Calcium	ppm	ASTM D5185m		1411	1213	1176
Phosphorus	ppm	ASTM D5185m		717	668	657
Zinc	ppm	ASTM D5185m		810	761	738
Sulfur	ppm	ASTM D5185m		2994	2447	2583
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8	16.8	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	5.5	6.7	8.6
Visc @ 100°C	cSt	ASTM D445	14	▲ 11.4	▲ 10.9	▲ 10.7

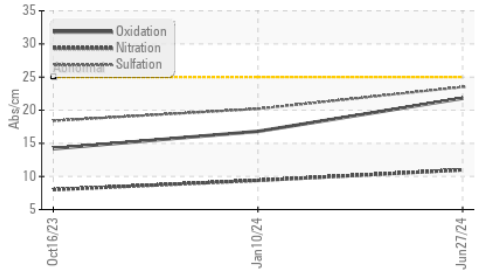
Viscosity @ 100°C



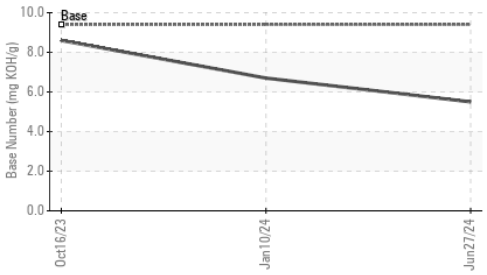
Fuel Dilution



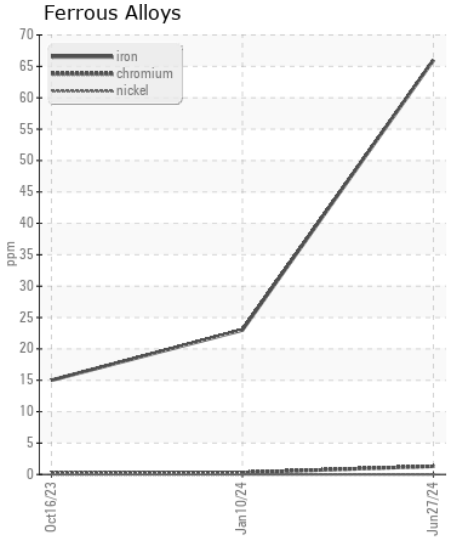
FT-IR (Direct Trend)



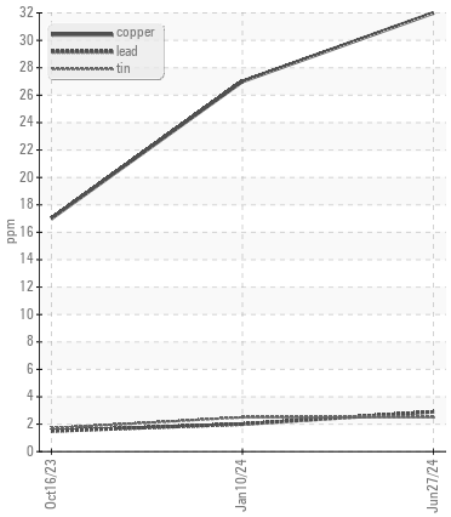
Base Number



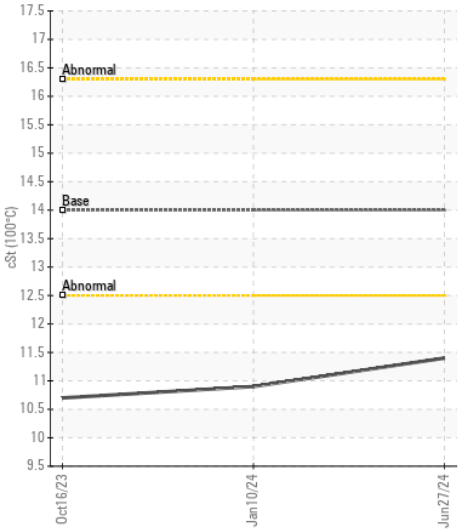
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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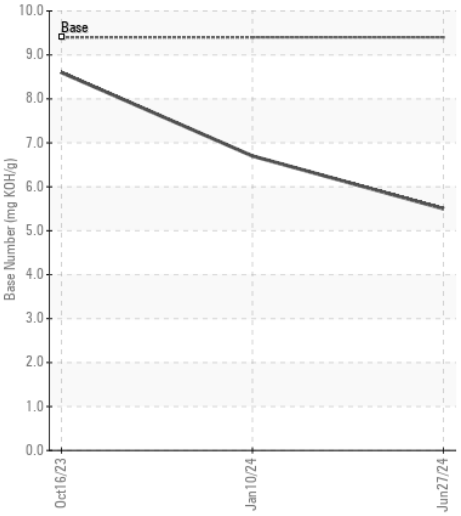

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021262
Lab Number : 06235616
Unique Number : 11124450
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 15 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 17 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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