OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	MARGINAL

Area
(00000)
Machine Id
CUMMINS 8464047
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (24 QTS)

RECOMMENDATION

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

WEAR

All component wear rates are normal.

CONTAMINATION

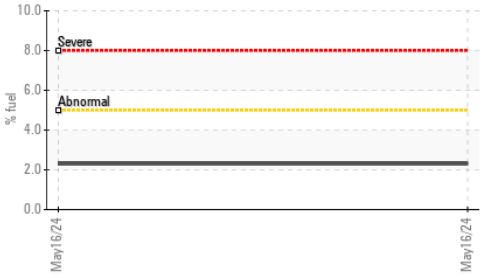
Light fuel dilution occurring.

FLUID CONDITION

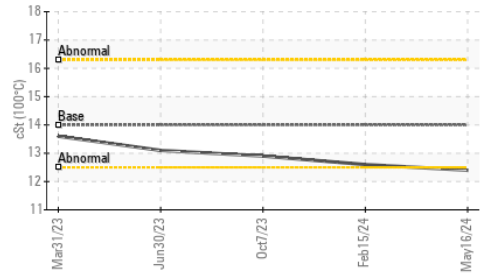
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0020385	RPL0017894	RPL0015505
Sample Date		Client Info		16 May 2024	15 Feb 2024	07 Oct 2023
Machine Age	mls	Client Info		212400	204838	197397
Oil Age	mls	Client Info		212400	13564	6123
Filter Age	mls	Client Info		0	13564	6123
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				MARGINAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	11	10	15
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	6	5	2
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	2	4	14
Tin	ppm	ASTM D5185m	>15	<1	<1	0
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	7	12	7
Potassium	ppm	ASTM D5185m	>20	10	30	2
Fuel	%	ASTM D3524	>5	▲ 2.3	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.9	7.7	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	22.4	22.0
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		1	<1	2
Boron	ppm	ASTM D5185m	0	8	44	<1
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	63	68	57
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	892	253	847
Calcium	ppm	ASTM D5185m		1191	1571	1002
Phosphorus	ppm	ASTM D5185m		975	696	860
Zinc	ppm	ASTM D5185m		1234	757	1094
Sulfur	ppm	ASTM D5185m		3715	3430	2567
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	16.9	20.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	7.1	7.0	6.9
Visc @ 100°C	cSt	ASTM D445	14	▲ 12.4	12.6	12.9

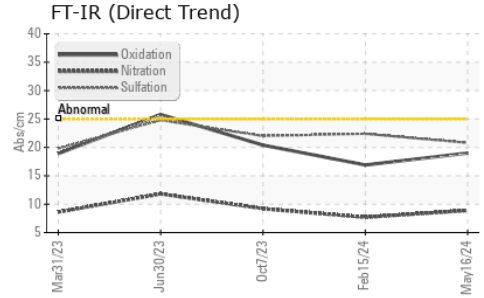
Fuel Dilution



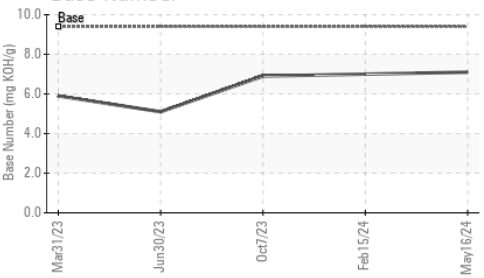
Viscosity @ 100°C



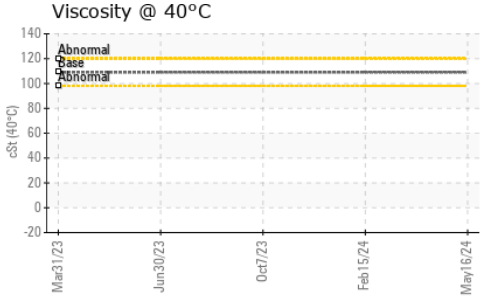
FT-IR (Direct Trend)



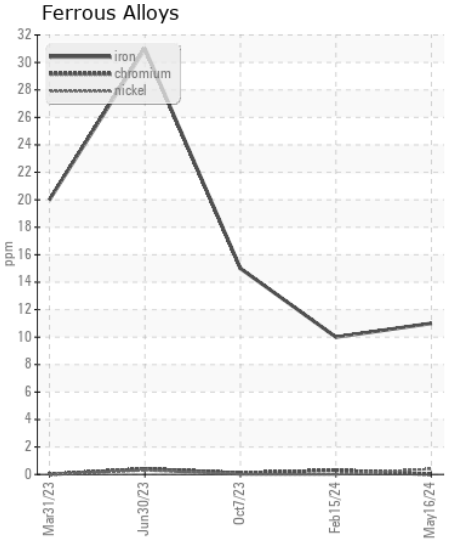
Base Number



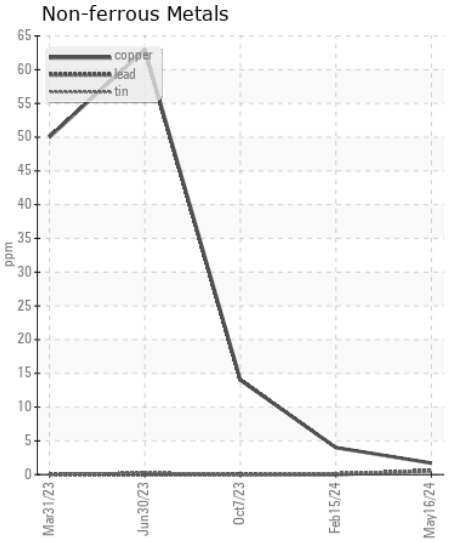
Viscosity @ 40°C



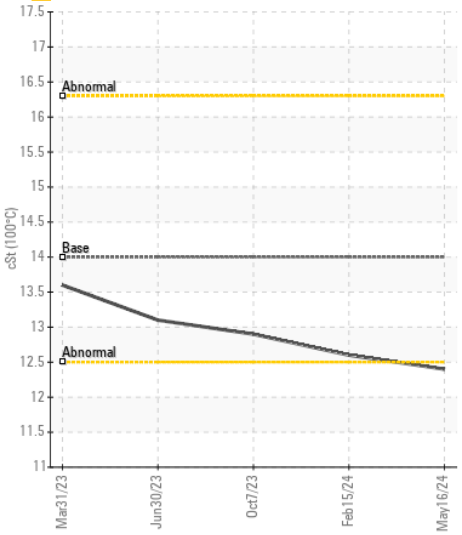
Ferrous Alloys



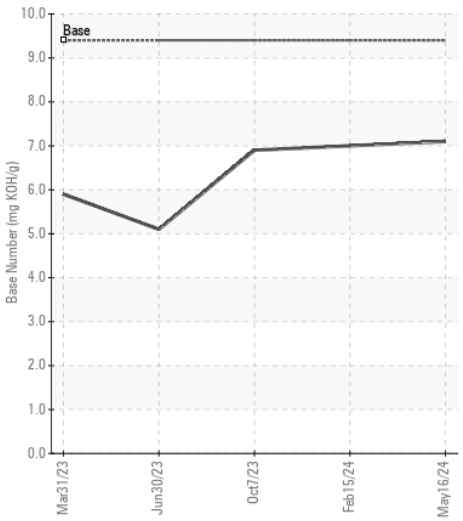
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0020385
Lab Number : 06190189
Unique Number : 11046941
Test Package : FLEET (Additional Tests: FUELDILUTION, KV40, PercentFuel)

Received : 24 May 2024
Tested : 30 May 2024
Diagnosed : 30 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)

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