OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
CUMMINS 9571093
Component
Diesel Engine
Fluid
MOBIL DELVAC ELITE 15W40 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. 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

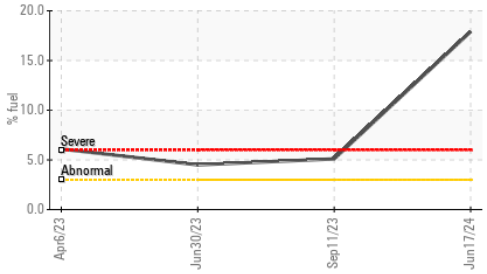
There is a high amount of fuel present in the oil.

FLUID CONDITION

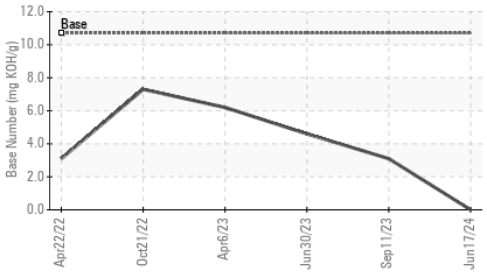
Fuel is present in the oil and is lowering the viscosity. The BN level is low. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0020565	RPL0015024	RPL0013511
Sample Date		Client Info		17 Jun 2024	11 Sep 2023	30 Jun 2023
Machine Age	mls	Client Info		247636	223488	0
Oil Age	mls	Client Info		24148	20494	0
Filter Age	mls	Client Info		24148	20494	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Filter Changed		Client Info		Changed	Not Changd	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>90	43	34	29
Chromium	ppm	ASTM D5185m	>20	2	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	<1	4
Lead	ppm	ASTM D5185m	>40	1	<1	0
Copper	ppm	ASTM D5185m	>330	5	2	2
Tin	ppm	ASTM D5185m	>15	<1	0	<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	>25	8	6	5
Potassium	ppm	ASTM D5185m	>20	32	26	17
Fuel	%	ASTM D3524	>3.0	▲ 17.9	▲ 5.1	▲ 4.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.5	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	14.7	12.3	11.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	43.2	30.3	27.5
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		64	48	25
Boron	ppm	ASTM D5185m		1	0	0
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		61	66	64
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		766	956	904
Calcium	ppm	ASTM D5185m		940	1147	1074
Phosphorus	ppm	ASTM D5185m		846	921	851
Zinc	ppm	ASTM D5185m		1050	1237	1124
Sulfur	ppm	ASTM D5185m		2535	3805	3279
Oxidation	Abs/.1mm	*ASTM D7414	>25	63.1	36.7	32.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	▲ 0.0	▲ 3.1	4.6
Visc @ 100°C	cSt	ASTM D445	15.2	▲ 9.3	▲ 12.0	12.1

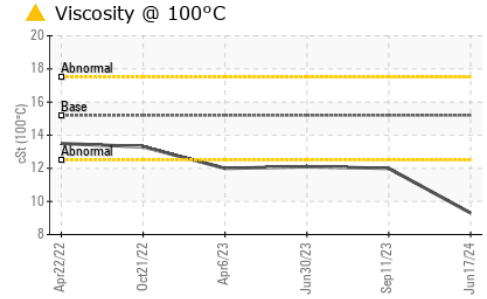
Fuel Dilution



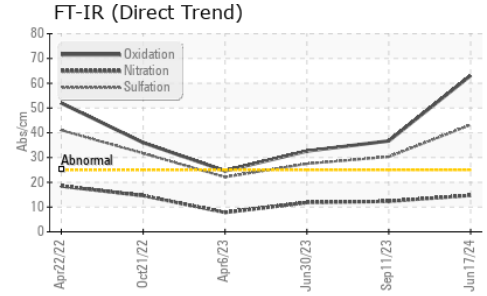
Base Number



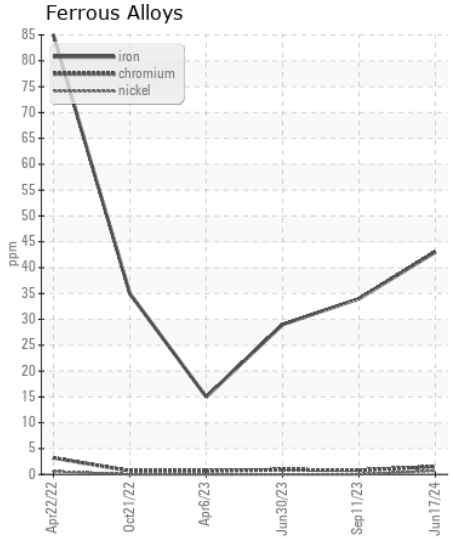
Viscosity @ 100°C



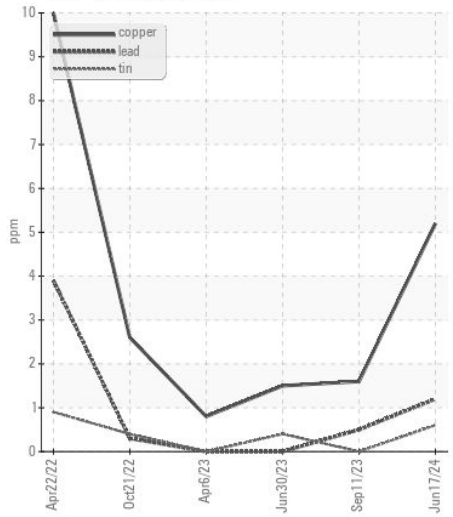
FT-IR (Direct Trend)



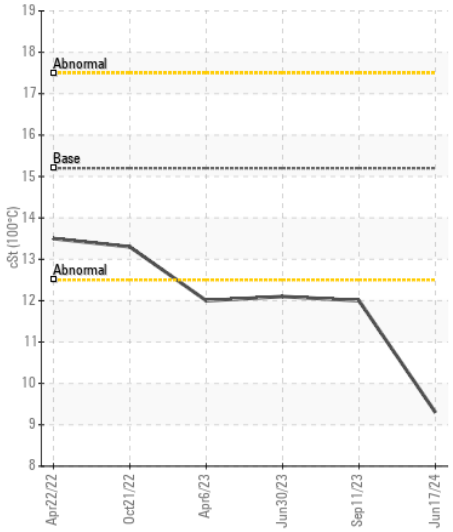
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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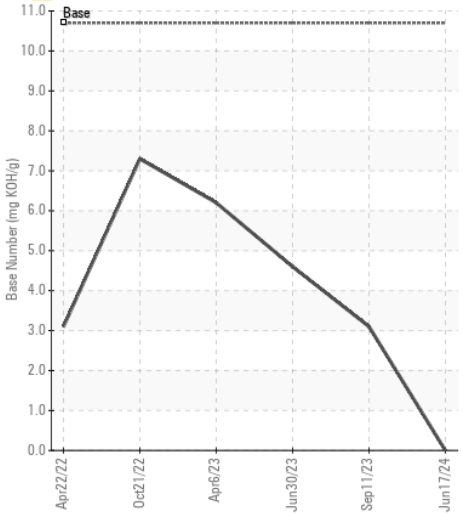

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0020565 **Received** : 25 Jun 2024
Lab Number : 06219341 **Tested** : 27 Jun 2024
Unique Number : 11097538 **Diagnosed** : 27 Jun 2024 - Don Baldridge
Test Package : FLEET (Additional Tests: PercentFuel)

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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