OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CUMMINS 8465182
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

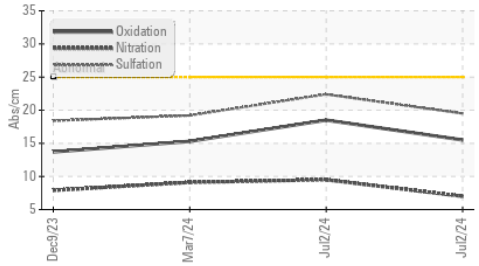
There is no indication of any contamination in the oil.

FLUID CONDITION

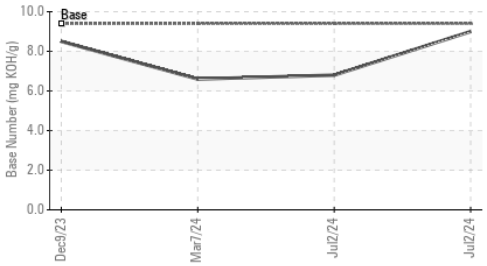
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0021888	RPL0021886	RPL0019445
Sample Date		Client Info		02 Jul 2024	02 Jul 2024	07 Mar 2024
Machine Age	mls	Client Info		0	0	11865
Oil Age	mls	Client Info		0	0	11865
Filter Age	mls	Client Info		0	0	11865
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	---	ABNORMAL
Iron	ppm	ASTM D5185m	>90	6	44	46
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	3	15	21
Lead	ppm	ASTM D5185m	>40	0	3	3
Copper	ppm	ASTM D5185m	>330	1	30	41
Tin	ppm	ASTM D5185m	>15	0	3	4
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	5	40	57
Potassium	ppm	ASTM D5185m	>20	4	66	85
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.2	0.5	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.0	9.5	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	22.4	19.2
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	5	7
Boron	ppm	ASTM D5185m	0	<1	33	77
Barium	ppm	ASTM D5185m	0	0	0	6
Molybdenum	ppm	ASTM D5185m	0	61	13	19
Manganese	ppm	ASTM D5185m		0	6	8
Magnesium	ppm	ASTM D5185m	0	961	728	1022
Calcium	ppm	ASTM D5185m		1160	1267	1747
Phosphorus	ppm	ASTM D5185m		1071	721	1022
Zinc	ppm	ASTM D5185m		1277	874	1221
Sulfur	ppm	ASTM D5185m		3016	3252	4355
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	18.5	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.0	6.8	6.6
Visc @ 100°C	cSt	ASTM D445	14	13.6	10.7	10.6

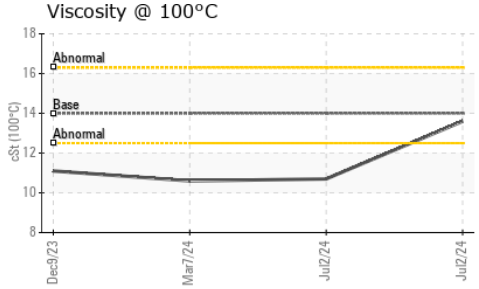
FT-IR (Direct Trend)



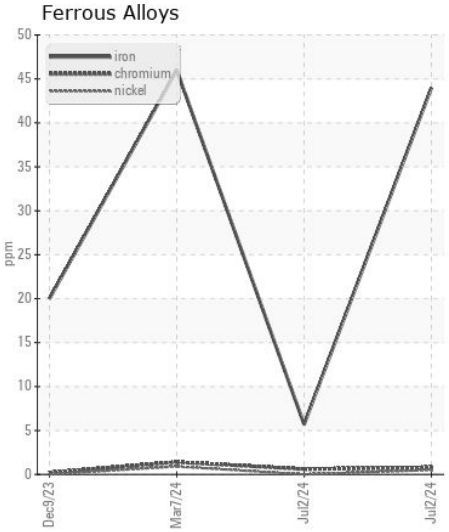
Base Number



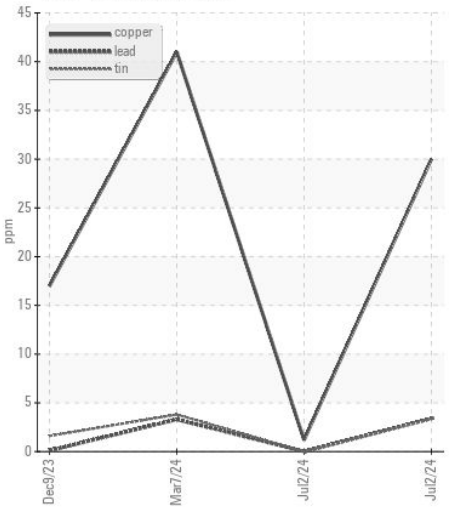
Viscosity @ 100°C



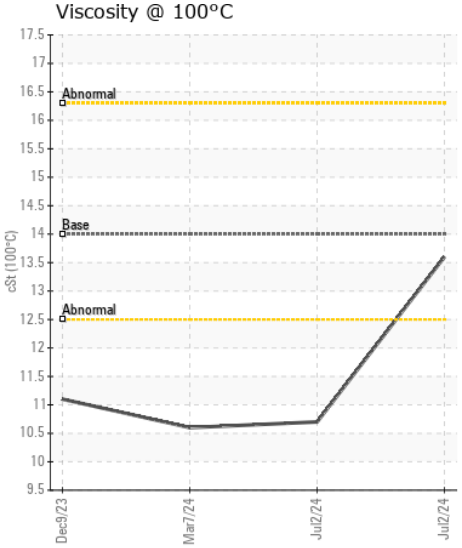
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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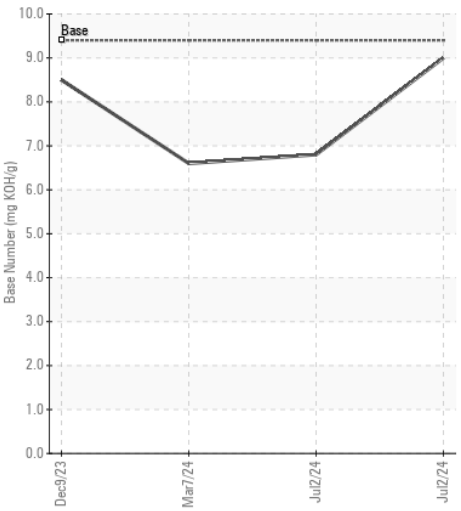

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021888
Lab Number : 06234579
Unique Number : 11123413
Test Package : FLEET

Received : 12 Jul 2024
Tested : 12 Jul 2024
Diagnosed : 15 Jul 2024 - Don Baldridge

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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