



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
CUMMINS 859-1879
 Component
1 Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (46 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0020419	RPL0017620	RPL0016304
Sample Date		Client Info		07 May 2024	06 Feb 2024	07 Nov 2023
Machine Age	mls	Client Info		43436	35180	29447
Oil Age	mls	Client Info		13989	3733	29447
Filter Age	mls	Client Info		13989	3733	29447
Oil Changed		Client Info		Filtered	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	16	10	57
Chromium	ppm	ASTM D5185m	>20	<1	<1	3
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	12	5	26
Lead	ppm	ASTM D5185m	>40	2	1	10
Copper	ppm	ASTM D5185m	>330	6	4	30
Tin	ppm	ASTM D5185m	>15	2	<1	4
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

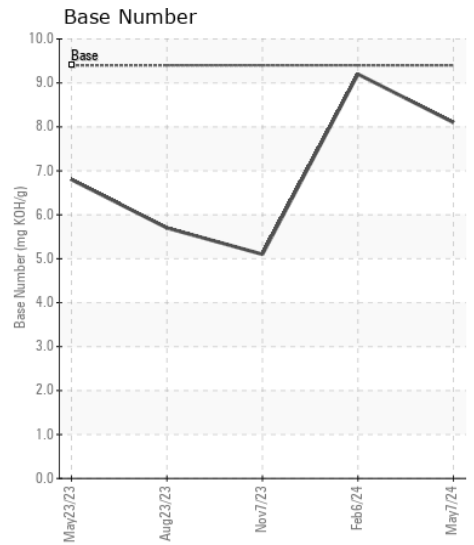
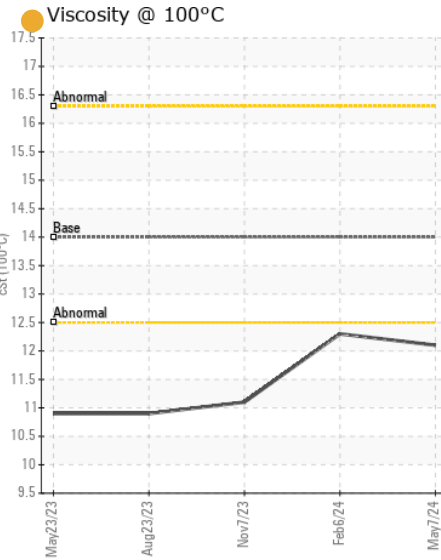
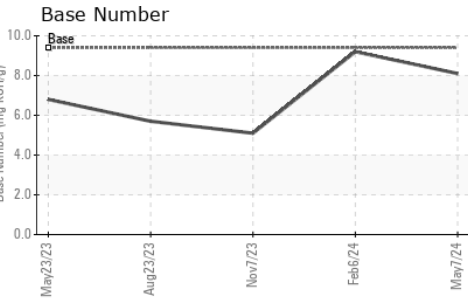
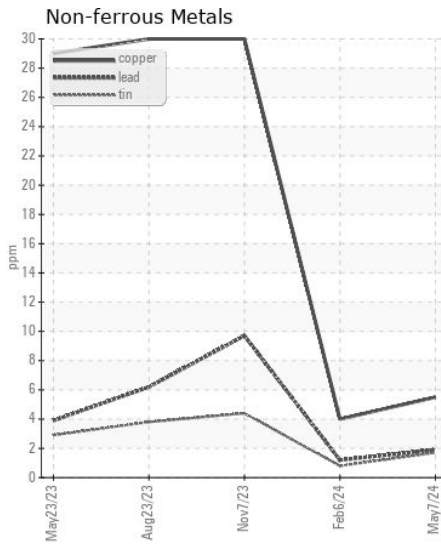
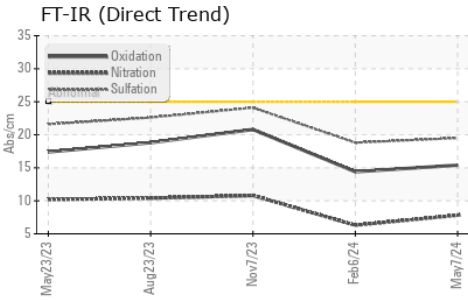
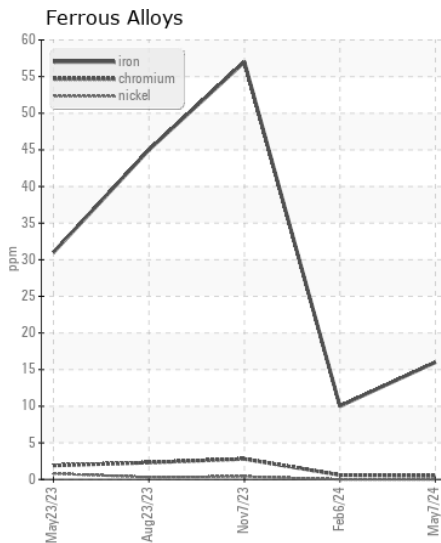
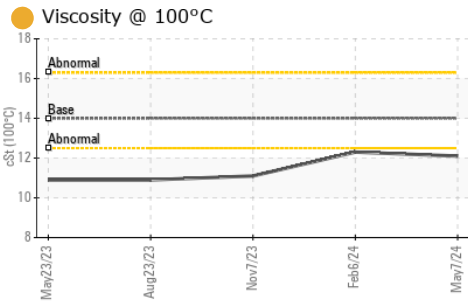
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	7	▲ 41
Potassium	ppm	ASTM D5185m	>20	37	26	93
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	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.8	6.3	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	18.8	24.1
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	0	4
Boron	ppm	ASTM D5185m	0	4	4	23
Barium	ppm	ASTM D5185m	0	0	<1	5
Molybdenum	ppm	ASTM D5185m	0	58	54	20
Manganese	ppm	ASTM D5185m		2	<1	6
Magnesium	ppm	ASTM D5185m	0	951	859	778
Calcium	ppm	ASTM D5185m		1098	970	1331
Phosphorus	ppm	ASTM D5185m		1035	933	696
Zinc	ppm	ASTM D5185m		1230	1067	895
Sulfur	ppm	ASTM D5185m		3584	3046	2693
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	14.4	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.1	9.2	5.1
Visc @ 100°C	cSt	ASTM D445	14	● 12.1	● 12.3	● 11.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0020419
Lab Number : 06185851
Unique Number : 11042603
Test Package : FLEET

Received : 21 May 2024
Tested : 22 May 2024
Diagnosed : 23 May 2024 - Jonathan Hester

RTL PACLEASE - 7006 - Pico Rivera
 7837 Telegraph Rd
 Pico Rivera, CA
 US 90660
 Contact: FRANK MARIN
 Marinf@RushEnterprises.Com

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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