



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
CUMMINS 846-5190
 Component
1 Diesel Engine
 Fluid
MOBIL DELVAC 1 5W40 (46 QTS)

RECOMMENDATION

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

WEAR

Metal levels are typical for a new component breaking in.

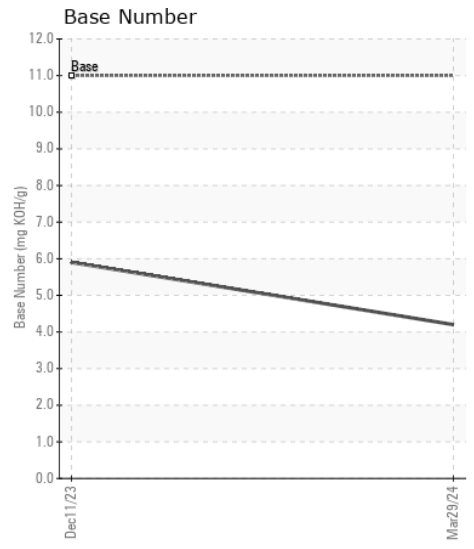
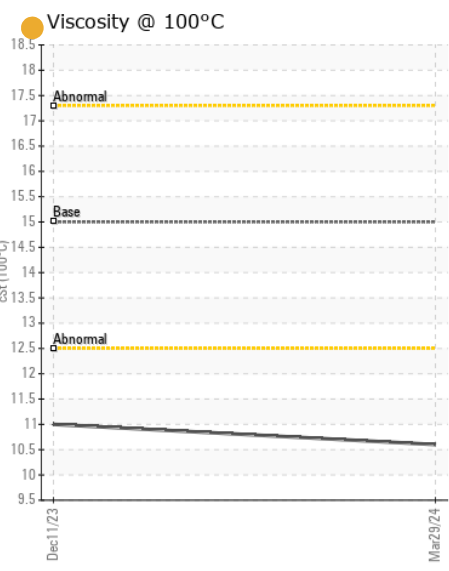
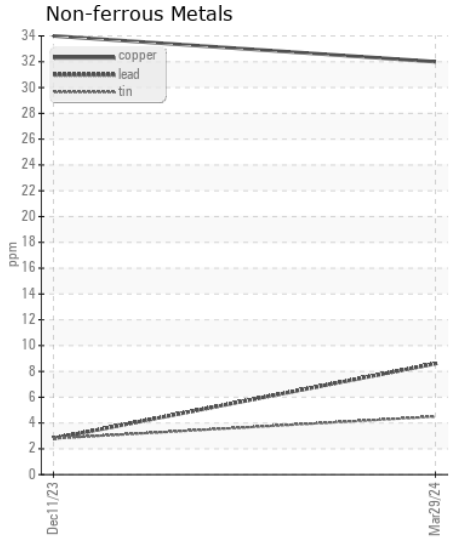
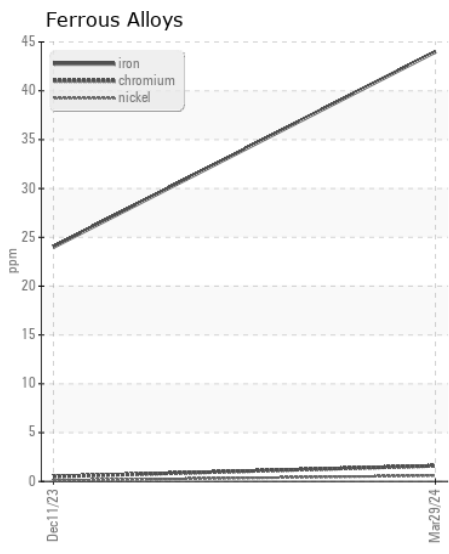
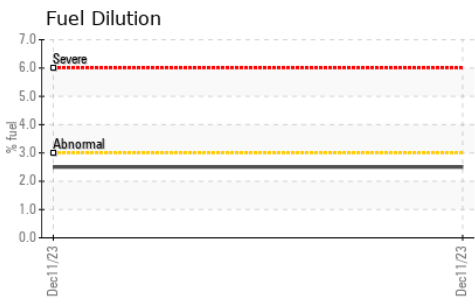
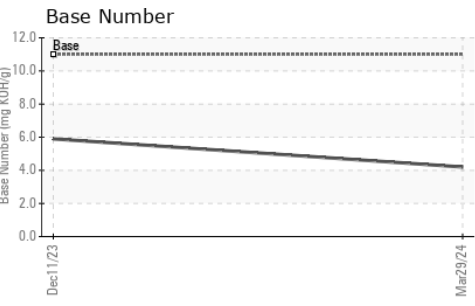
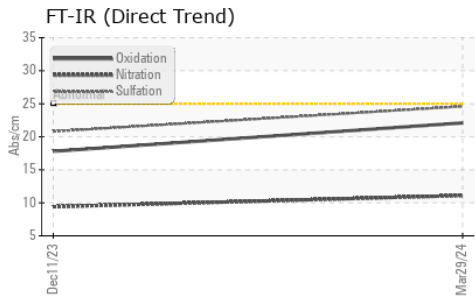
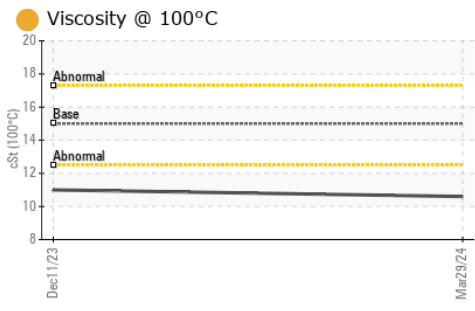
CONTAMINATION

There is no indication of any contamination in the oil.

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0019383	RPL0016826	---
Sample Date		Client Info		29 Mar 2024	11 Dec 2023	---
Machine Age	mls	Client Info		20126	9709	---
Oil Age	mls	Client Info		20126	9709	---
Filter Age	mls	Client Info		20126	9709	---
Oil Changed		Client Info		Not Chngd	N/A	---
Filter Changed		Client Info		Not Chngd	N/A	---
Sample Status				ATTENTION	ABNORMAL	---
Iron	ppm	ASTM D5185m	>90	44	24	---
Chromium	ppm	ASTM D5185m	>20	2	<1	---
Nickel	ppm	ASTM D5185m	>2	<1	<1	---
Titanium	ppm	ASTM D5185m	>2	<1	0	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	17	10	---
Lead	ppm	ASTM D5185m	>40	9	3	---
Copper	ppm	ASTM D5185m	>330	32	34	---
Tin	ppm	ASTM D5185m	>15	4	3	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	41	40	---
Potassium	ppm	ASTM D5185m	>20	45	19	---
Fuel	%	ASTM D3524	>3.0	<1.0	▲ 2.5	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>6	0.4	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	11.1	9.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	20.8	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185m		6	4	---
Boron	ppm	ASTM D5185m	291	19	43	---
Barium	ppm	ASTM D5185m	0.0	5	0	---
Molybdenum	ppm	ASTM D5185m	8.0	15	12	---
Manganese	ppm	ASTM D5185m		6	4	---
Magnesium	ppm	ASTM D5185m	624	739	684	---
Calcium	ppm	ASTM D5185m	2158	1324	1236	---
Phosphorus	ppm	ASTM D5185m	1132	720	● 640	---
Zinc	ppm	ASTM D5185m	1300	843	● 779	---
Sulfur	ppm	ASTM D5185m	3616	3078	2803	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.1	17.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	4.2	5.9	---
Visc @ 100°C	cSt	ASTM D445	15.0	● 10.6	▲ 11.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0019383 **Received** : 11 Apr 2024
Lab Number : 06145603 **Tested** : 12 Apr 2024
Unique Number : 10970411 **Diagnosed** : 12 Apr 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution)

RTL PACLEASE - 7006 - Pico Rivera
 7837 Telegraph Rd
 Pico Rivera, CA
 US 90660
 Contact: GERARDO CARROLA
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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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F: