OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
CUMMINS 8465196
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (46 QTS)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

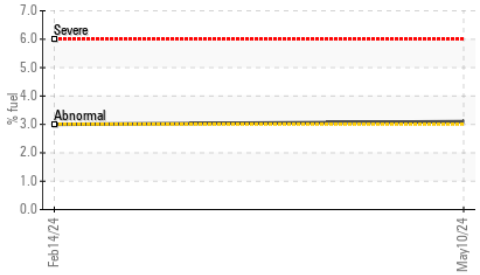
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

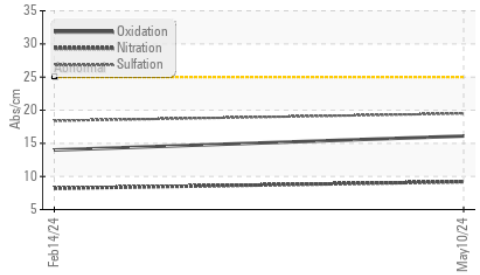
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0020376	RPL0017988	---
Sample Date		Client Info		10 May 2024	14 Feb 2024	---
Machine Age	mls	Client Info		5413	3420	---
Oil Age	mls	Client Info		3420	3420	---
Filter Age	mls	Client Info		0	3420	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				ABNORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>90	36	30	---
Chromium	ppm	ASTM D5185m	>20	2	<1	---
Nickel	ppm	ASTM D5185m	>2	<1	<1	---
Titanium	ppm	ASTM D5185m	>2	<1	<1	---
Silver	ppm	ASTM D5185m	>2	2	<1	---
Aluminum	ppm	ASTM D5185m	>20	6	3	---
Lead	ppm	ASTM D5185m	>40	2	1	---
Copper	ppm	ASTM D5185m	>330	30	23	---
Tin	ppm	ASTM D5185m	>15	3	1	---
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	43	41	---
Potassium	ppm	ASTM D5185m	>20	19	16	---
Fuel	%	ASTM D3524	>3.0	▲ 3.1	▲ 3.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>6	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	9.2	8.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	18.4	---
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		5	0	---
Boron	ppm	ASTM D5185m	0	75	79	---
Barium	ppm	ASTM D5185m	0	6	5	---
Molybdenum	ppm	ASTM D5185m	0	13	13	---
Manganese	ppm	ASTM D5185m		5	5	---
Magnesium	ppm	ASTM D5185m	0	701	659	---
Calcium	ppm	ASTM D5185m		1237	1121	---
Phosphorus	ppm	ASTM D5185m		686	718	---
Zinc	ppm	ASTM D5185m		814	743	---
Sulfur	ppm	ASTM D5185m		2853	2844	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	14.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	7.3	8.1	---
Visc @ 100°C	cSt	ASTM D445	14	▲ 10.5	▲ 10.8	---

Fuel Dilution

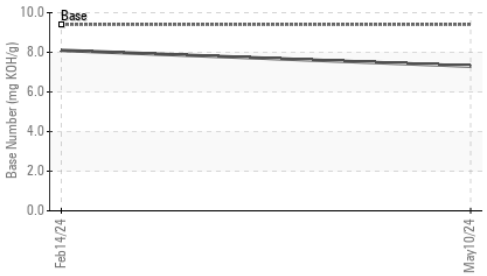


Viscosity @ 100°C

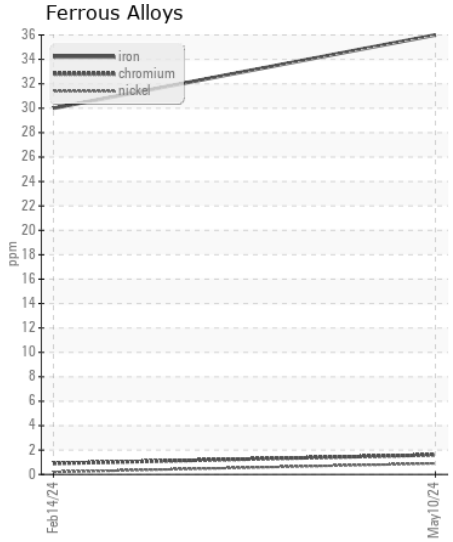
FT-IR (Direct Trend)



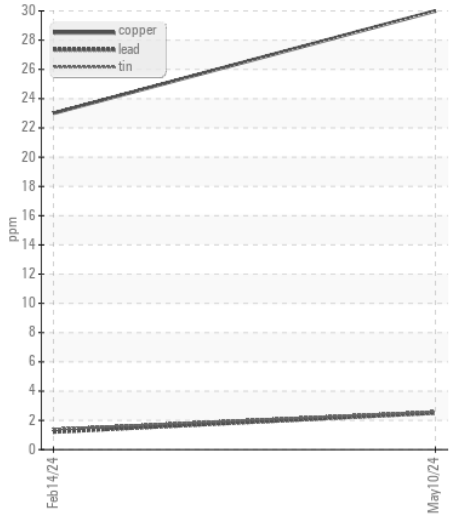
Base Number



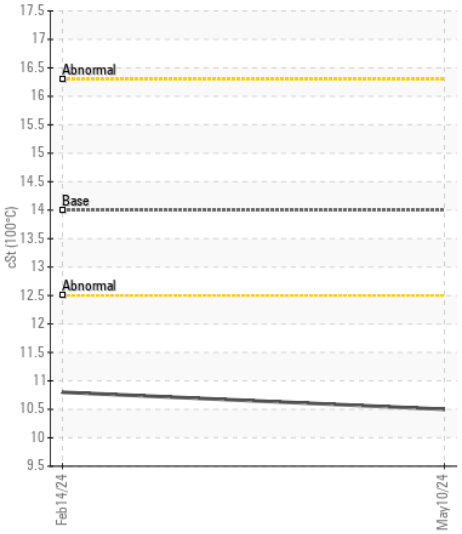
Ferrous Alloys



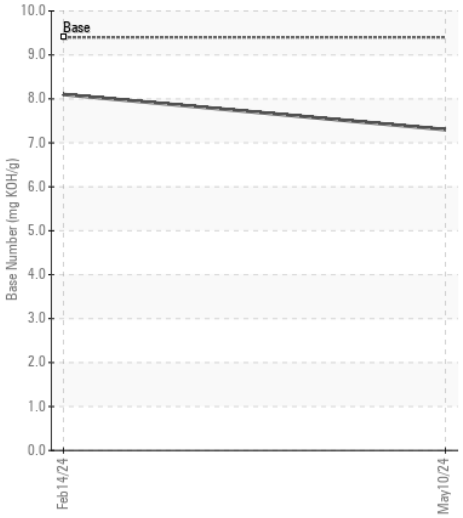
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0020376
Lab Number : 06191908
Unique Number : 11048660
Test Package : FLEET (Additional Tests: PercentFuel)

Received : 28 May 2024
Tested : 29 May 2024
Diagnosed : 29 May 2024 - Wes Davis

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)

RTL PACLEASE - 7006 - Pico Rivera
7837 Telegraph Rd
Pico Rivera, CA
US 90660
Contact: GERARDO CARROLA
carrolag@rushenterprises.com
T:
F: