



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
INTERNATIONAL 441428
 Component
1 Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (18 QTS)

RECOMMENDATION

We advise that you check the fuel injection system. Resample at the next service interval to monitor. (Customer Sample Comment: Hours=3,263)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0033861	---	---
Sample Date		Client Info		28 May 2024	---	---
Machine Age	mls	Client Info		13667	---	---
Oil Age	mls	Client Info		0	---	---
Filter Age	mls	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	153	---	---
Chromium	ppm	ASTM D5185m	>20	4	---	---
Nickel	ppm	ASTM D5185m	>4	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>3	0	---	---
Aluminum	ppm	ASTM D5185m	>20	10	---	---
Lead	ppm	ASTM D5185m	>40	0	---	---
Copper	ppm	ASTM D5185m	>330	36	---	---
Tin	ppm	ASTM D5185m	>15	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

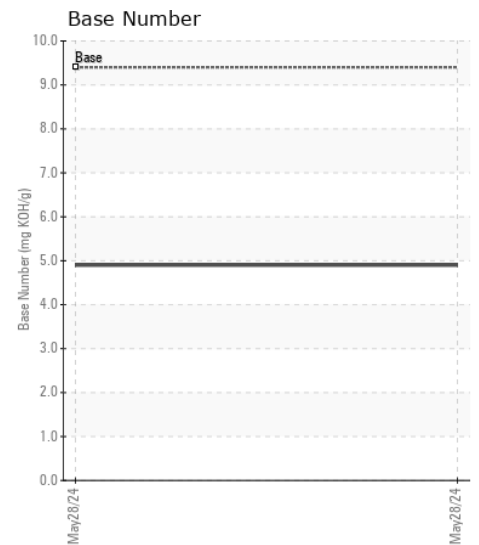
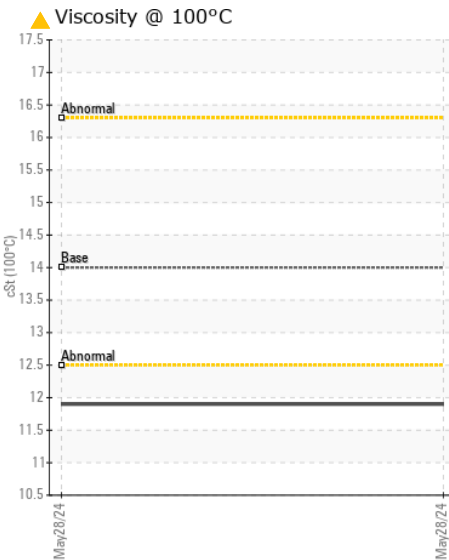
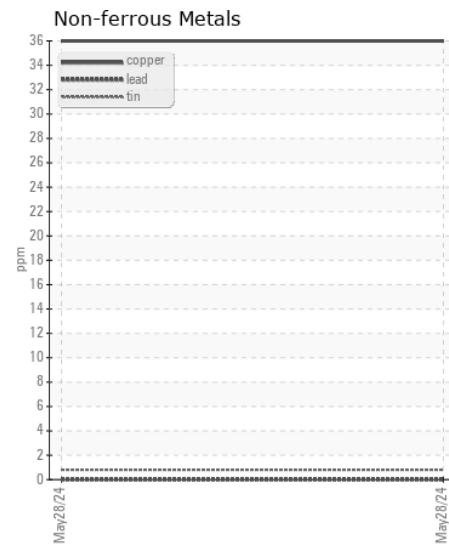
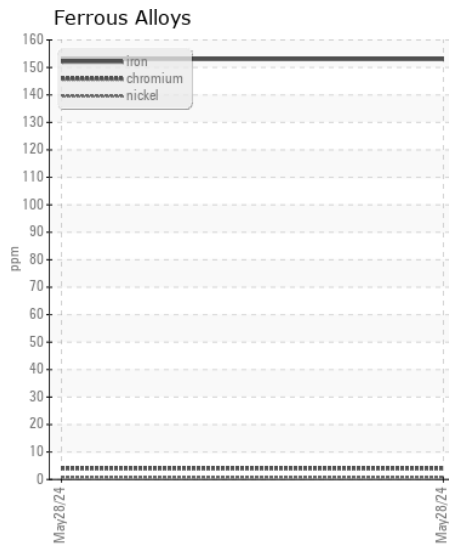
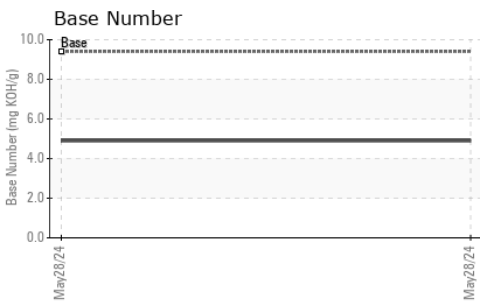
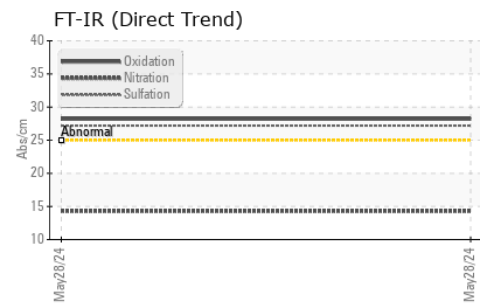
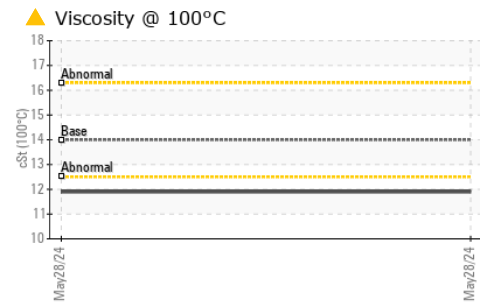
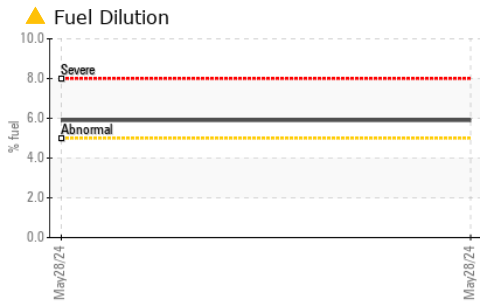
There is a moderate amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>25	29	---	---
Potassium	ppm	ASTM D5185m	>20	14	---	---
Fuel	%	ASTM D3524	>5	▲ 5.9	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844	>3	0.6	---	---
Nitration	Abs/cm	*ASTM D7624	>20	14.3	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.2	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		10	---	---
Boron	ppm	ASTM D5185m	0	28	---	---
Barium	ppm	ASTM D5185m	0	4	---	---
Molybdenum	ppm	ASTM D5185m	0	49	---	---
Manganese	ppm	ASTM D5185m		8	---	---
Magnesium	ppm	ASTM D5185m	0	845	---	---
Calcium	ppm	ASTM D5185m		1270	---	---
Phosphorus	ppm	ASTM D5185m		730	---	---
Zinc	ppm	ASTM D5185m		900	---	---
Sulfur	ppm	ASTM D5185m		2636	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.2	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	4.9	---	---
Visc @ 100°C	cSt	ASTM D445	14	▲ 11.9	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : IL0033861

Lab Number : 06212818

Unique Number : 11085682

Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 17 Jun 2024

Tested : 20 Jun 2024

Diagnosed : 20 Jun 2024 - Sean Felton

RUSH TRUCK LEASING - CHARLOTTE IDEALEASE

1333 AMERON DR

CHARLOTTE, NC

US 28206

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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)