



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Area

CFR#41920

Machine Id

06D309704

Component

Diesel Engine

Fluid

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC876695	---	---
Sample Date		Client Info		09 May 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		88	---	---
Filter Age	hrs	Client Info		88	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

Tin ppm levels are abnormal. Piston wear is indicated.

Iron	ppm	ASTM D5185(m)	>101	19	---	---
Chromium	ppm	ASTM D5185(m)	>16	<1	---	---
Nickel	ppm	ASTM D5185(m)	>6	0	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>21	1	---	---
Lead	ppm	ASTM D5185(m)	>41	6	---	---
Copper	ppm	ASTM D5185(m)	>21	5	---	---
Tin	ppm	ASTM D5185(m)	>13	▲ 16	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

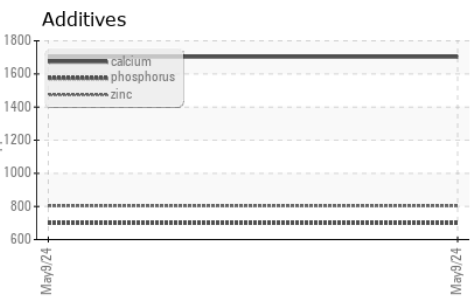
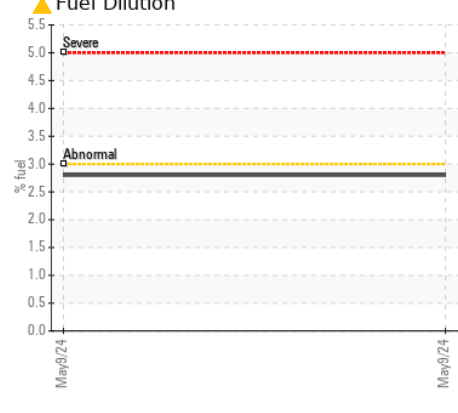
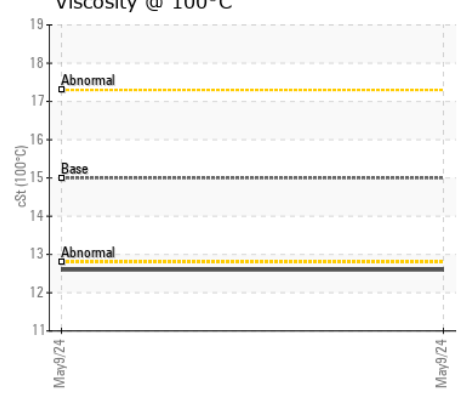
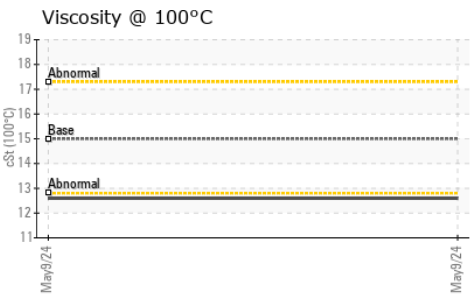
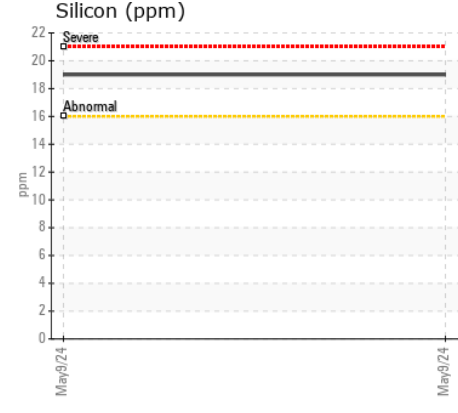
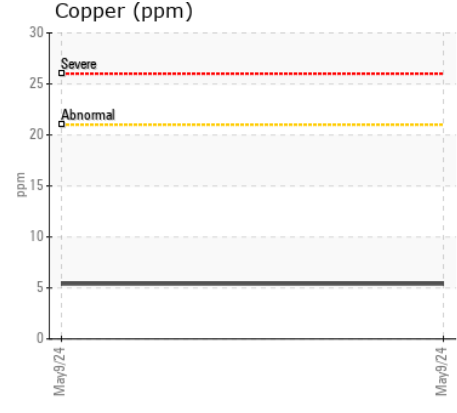
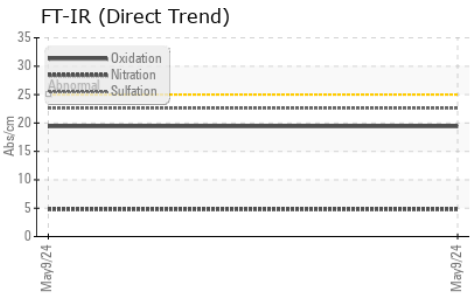
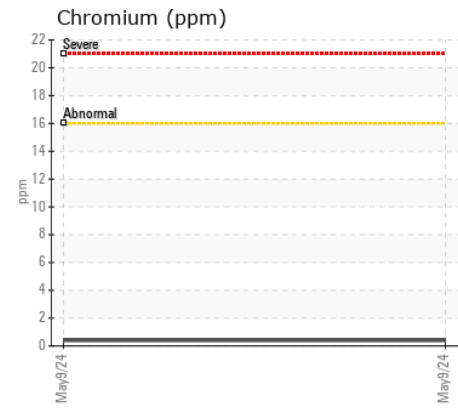
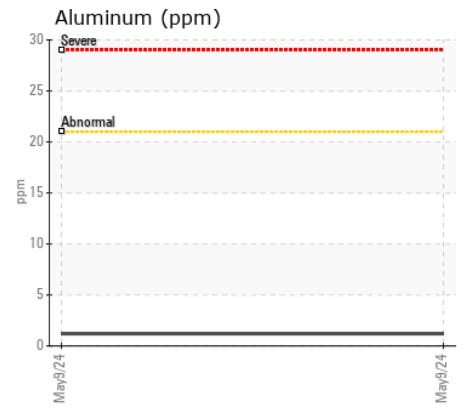
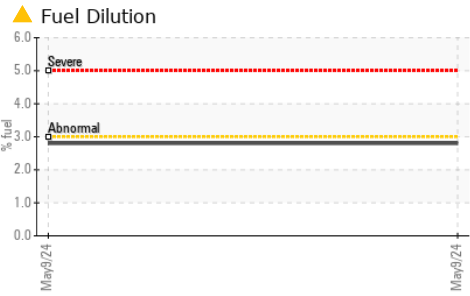
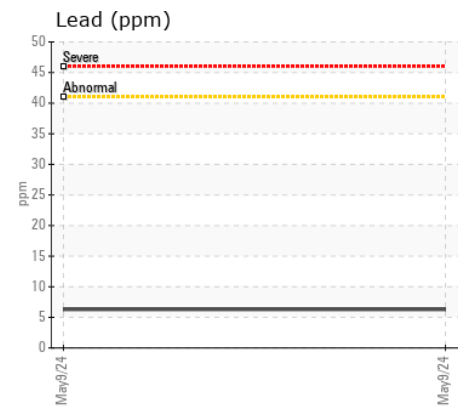
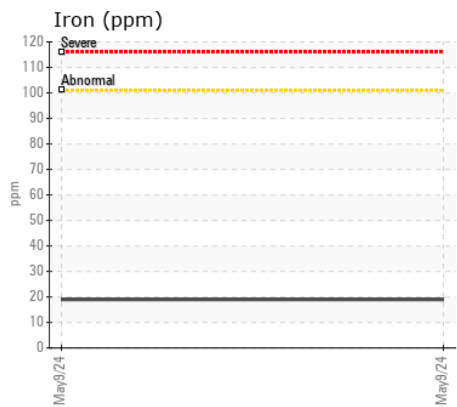
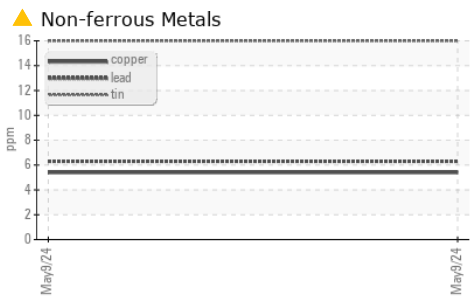
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>16	19	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Fuel	%	ASTM D7593*	>3.0	▲ 2.8	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>0.8	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	4.8	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.6	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		9	---	---
Boron	ppm	ASTM D5185(m)	0	92	---	---
Barium	ppm	ASTM D5185(m)	0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	44	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)	0	425	---	---
Calcium	ppm	ASTM D5185(m)		1703	---	---
Phosphorus	ppm	ASTM D5185(m)		699	---	---
Zinc	ppm	ASTM D5185(m)		803	---	---
Sulfur	ppm	ASTM D5185(m)		2918	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	12.6	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC876695 **Received** : 13 May 2024
Lab Number : 02634850 **Tested** : 14 May 2024
Unique Number : 5776003 **Diagnosed** : 14 May 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.