



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CUMMINS 10TH LINE & 10 TH LINE SR
 Component
Diesel Engine
 Fluid
TOTAL FINA RUBIA TIR 7900 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0888768	WC0665486	---
Sample Date		Client Info		16 Feb 2024	22 Apr 2022	---
Machine Age	hrs	Client Info		276	189	---
Oil Age	hrs	Client Info		87	0	---
Filter Age	hrs	Client Info		87	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	MARGINAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	1	3	---
Chromium	ppm	ASTM D5185(m)	>20	0	0	---
Nickel	ppm	ASTM D5185(m)	>2	0	0	---
Titanium	ppm	ASTM D5185(m)	>2	0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	2	2	---
Lead	ppm	ASTM D5185(m)	>40	0	<1	---
Copper	ppm	ASTM D5185(m)	>330	<1	<1	---
Tin	ppm	ASTM D5185(m)	>15	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

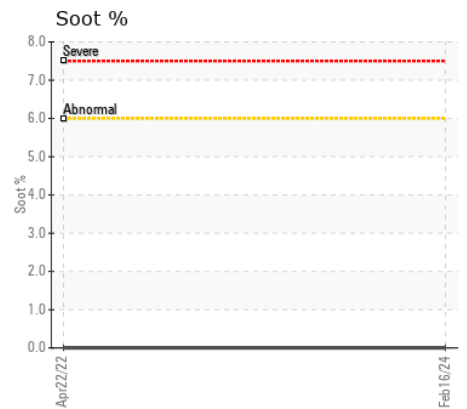
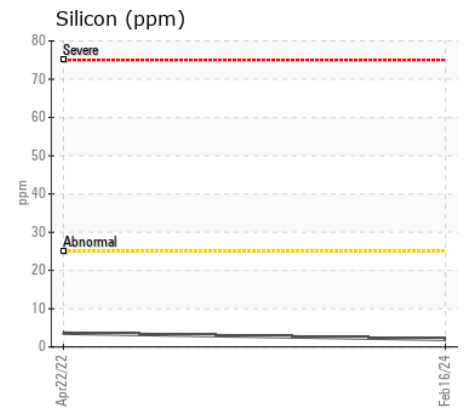
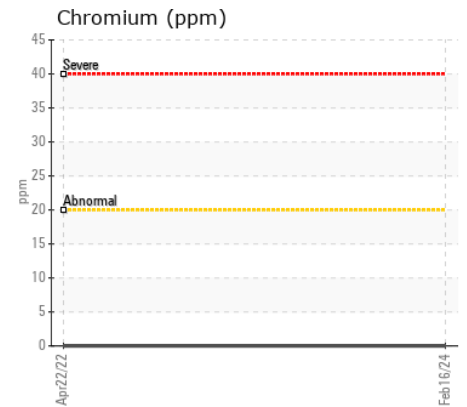
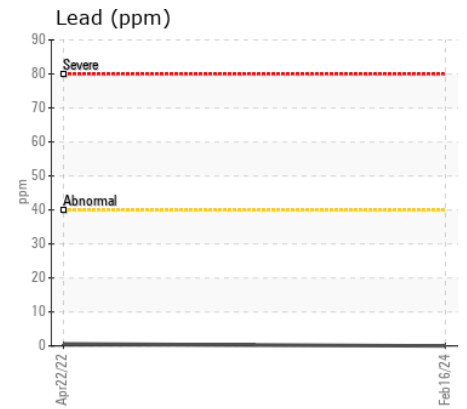
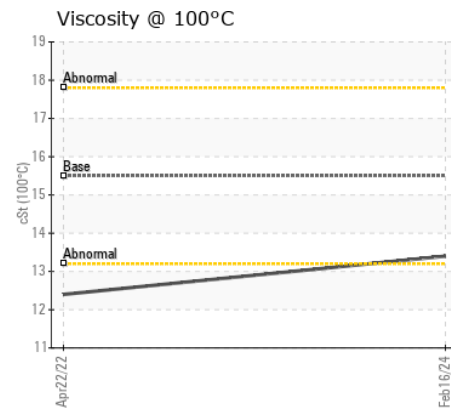
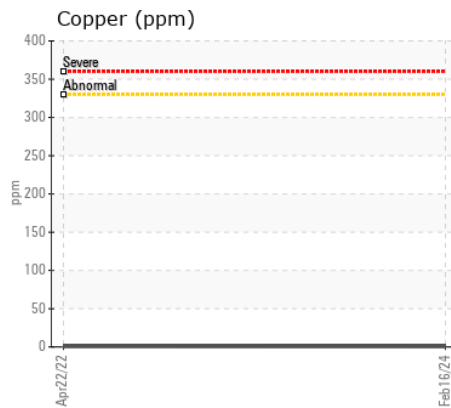
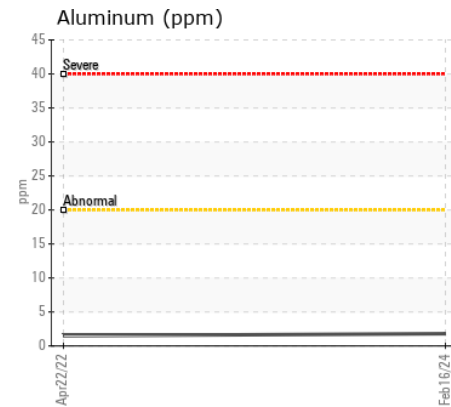
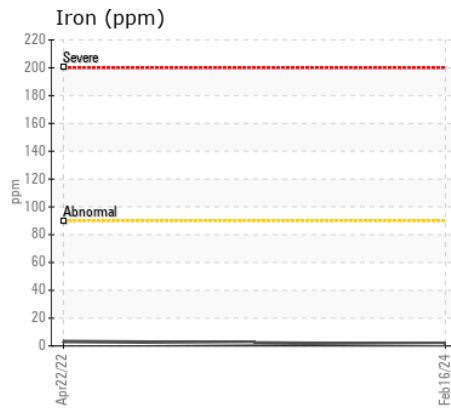
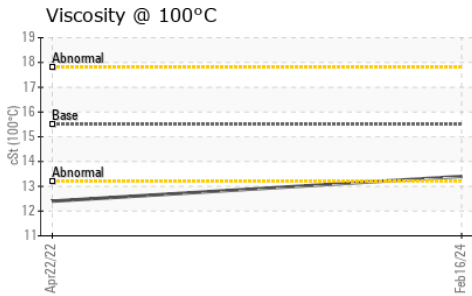
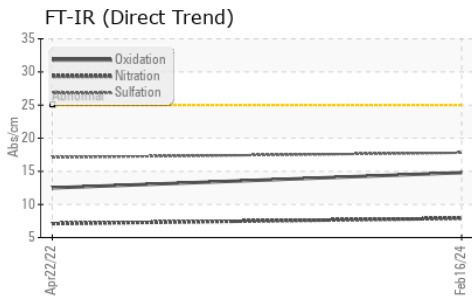
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	4	---
Potassium	ppm	ASTM D5185(m)	>20	0	0	---
Fuel		WC Method	>3.0	<1.0	▲ 1	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>6	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	7.9	7.1	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.8	17.1	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	2	---
Boron	ppm	ASTM D5185(m)		69	60	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		82	73	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		24	204	---
Calcium	ppm	ASTM D5185(m)	3290	2191	2044	---
Phosphorus	ppm	ASTM D5185(m)	1200	999	1035	---
Zinc	ppm	ASTM D5185(m)	1400	1133	1059	---
Sulfur	ppm	ASTM D5185(m)	4000	3091	3117	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.8	12.5	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	13.4	12.4	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0888768 **Received** : 15 Apr 2024
Lab Number : 02628730 **Tested** : 15 Apr 2024
Unique Number : 5761862 **Diagnosed** : 15 Apr 2024 - Kevin Marson
Test Package : MOB 1

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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.