



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
C-71
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CU0020688	CU0020685	---
Sample Date		Client Info		21 Feb 2024	28 Jan 2024	---
Machine Age	hrs	Client Info		5602	0	---
Oil Age	hrs	Client Info		250	0	---
Filter Age	hrs	Client Info		250	0	---
Oil Changed		Client Info		Changed	Not Chngd	---
Filter Changed		Client Info		Changed	Not Chngd	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>86	54	▲ 126	---
Chromium	ppm	ASTM D5185(m)	>3	<1	2	---
Nickel	ppm	ASTM D5185(m)	>3	1	1	---
Titanium	ppm	ASTM D5185(m)	>2	0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>15	4	8	---
Lead	ppm	ASTM D5185(m)	>16	4	3	---
Copper	ppm	ASTM D5185(m)	>250	9	34	---
Tin	ppm	ASTM D5185(m)	>2	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

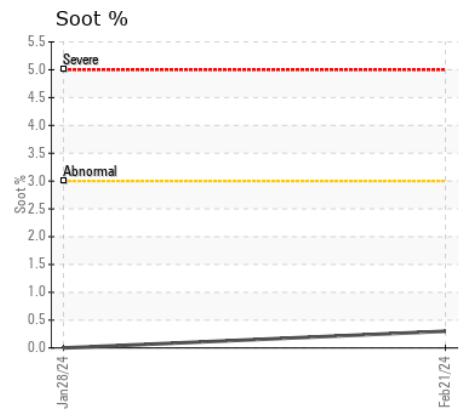
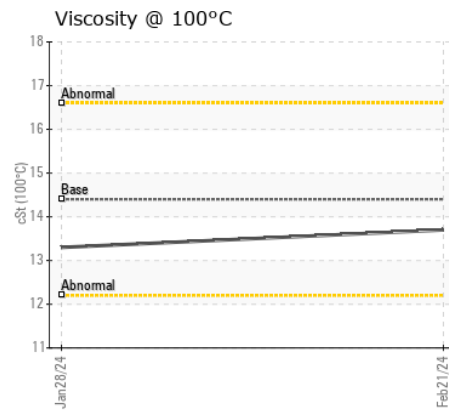
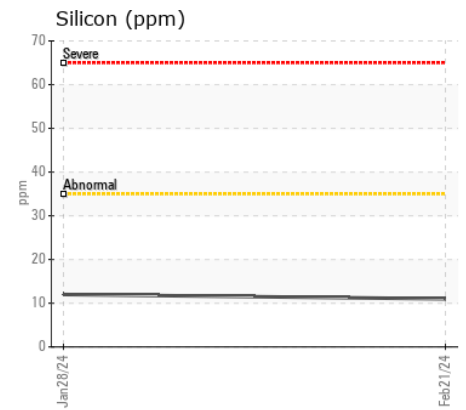
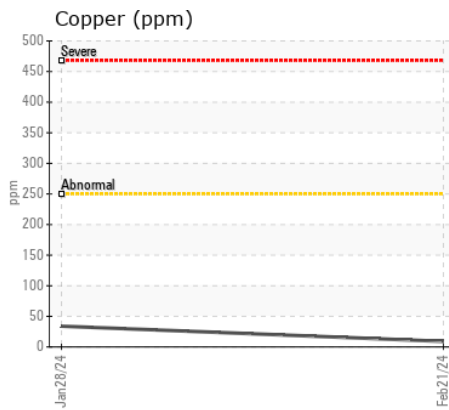
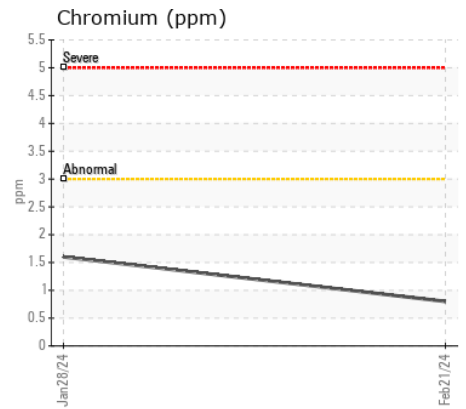
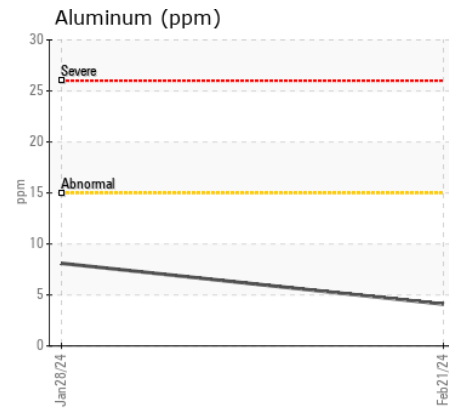
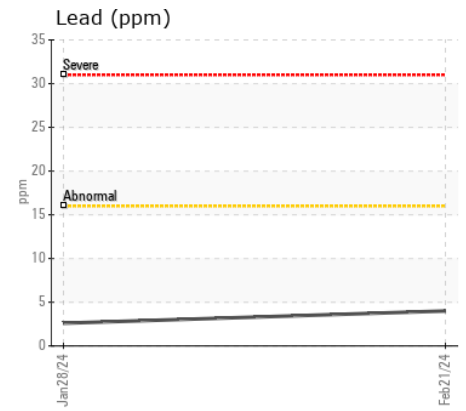
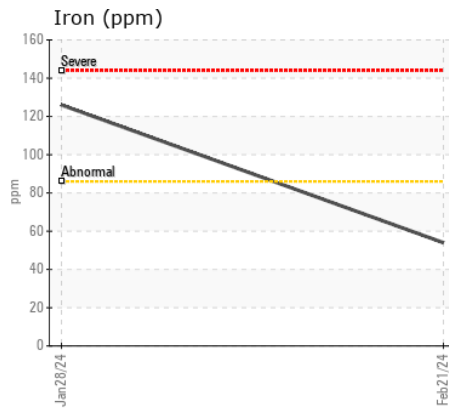
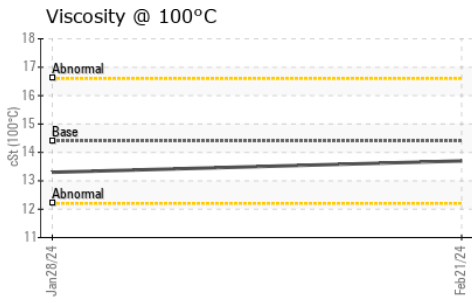
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	11	12	---
Potassium	ppm	ASTM D5185(m)	>20	8	5	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	0.0	---
Soot %	%	ASTM D7844*	>3	0.3	0	---
Nitration	Abs/cm	ASTM D7624*	>20	8.5	7.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	21.3	---
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)	>216	5	5	---
Boron	ppm	ASTM D5185(m)	250	252	262	---
Barium	ppm	ASTM D5185(m)	10	0	0	---
Molybdenum	ppm	ASTM D5185(m)	100	61	59	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)	450	297	266	---
Calcium	ppm	ASTM D5185(m)	3000	1526	1459	---
Phosphorus	ppm	ASTM D5185(m)	1150	881	893	---
Zinc	ppm	ASTM D5185(m)	1350	1043	1026	---
Sulfur	ppm	ASTM D5185(m)	4250	2665	2782	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.7	16.1	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.7	13.3	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0020688 **Received** : 29 Feb 2024
Lab Number : 02618907 **Tested** : 29 Feb 2024
Unique Number : 5736017 **Diagnosed** : 29 Feb 2024 - Wes Davis
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.