



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

COMPASS DATA [154376]

Area
Machine Id
1D
Component
Diesel Engine

Fluid
VALVOLINE PREMIUM BLUE 9200 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CU0022698	CU0022301	---
Sample Date		Client Info		17 May 2024	28 Nov 2023	---
Machine Age	hrs	Client Info		83	59	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>65	6	5	---
Chromium	ppm	ASTM D5185(m)	>3	0	0	---
Nickel	ppm	ASTM D5185(m)	>2	0	0	---
Titanium	ppm	ASTM D5185(m)	>2	2	1	---
Silver	ppm	ASTM D5185(m)	>2	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>6	<1	1	---
Lead	ppm	ASTM D5185(m)	>13	<1	1	---
Copper	ppm	ASTM D5185(m)	>65	29	7	---
Tin	ppm	ASTM D5185(m)	>2	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	VLITE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

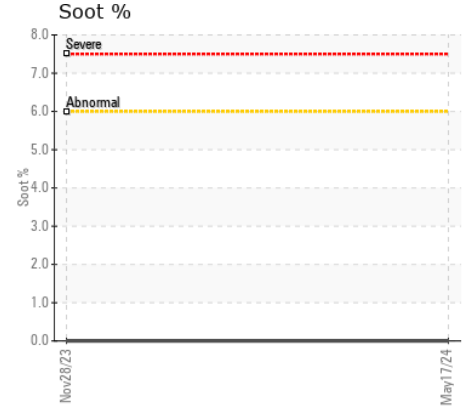
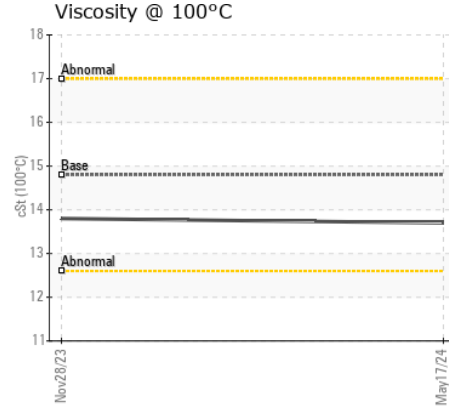
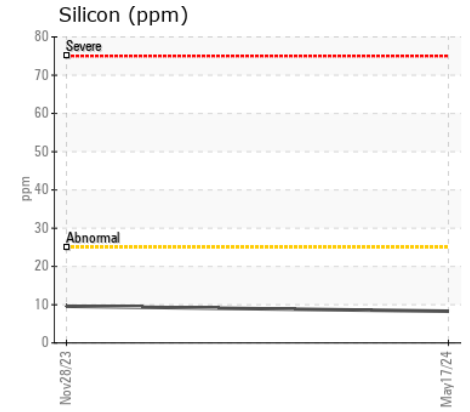
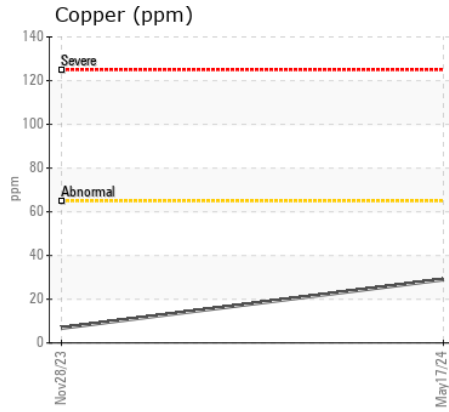
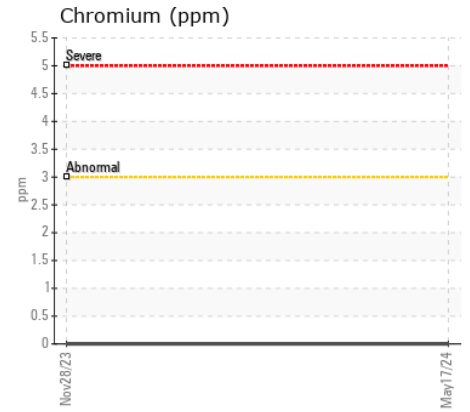
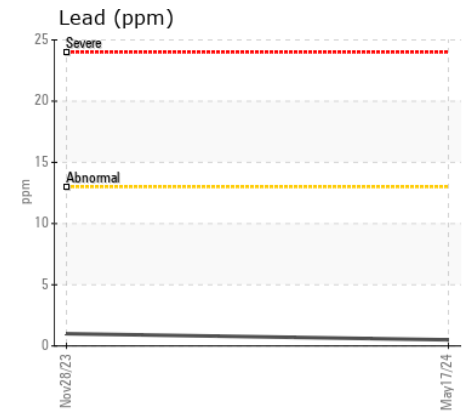
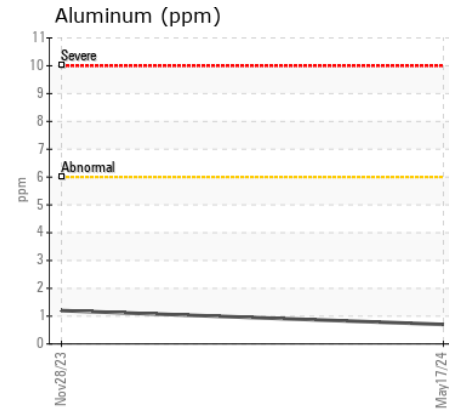
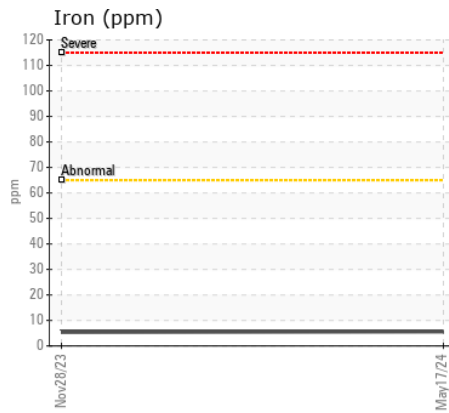
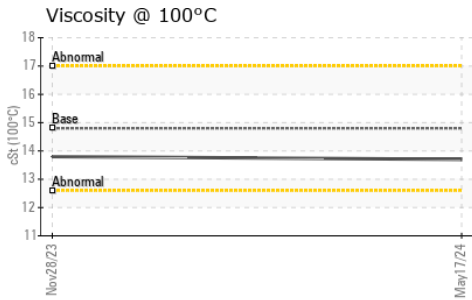
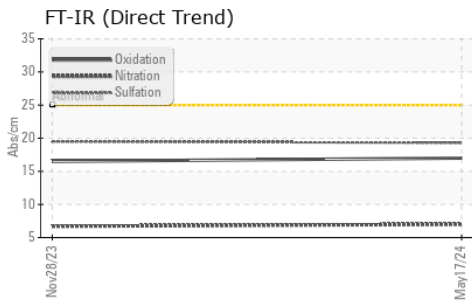
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	10	---
Potassium	ppm	ASTM D5185(m)	>20	<1	0	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>6	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	7.0	6.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	19.5	---
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	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		4	4	---
Boron	ppm	ASTM D5185(m)		41	41	---
Barium	ppm	ASTM D5185(m)		2	2	---
Molybdenum	ppm	ASTM D5185(m)		43	44	---
Manganese	ppm	ASTM D5185(m)		1	<1	---
Magnesium	ppm	ASTM D5185(m)		704	702	---
Calcium	ppm	ASTM D5185(m)		1618	1613	---
Phosphorus	ppm	ASTM D5185(m)		763	754	---
Zinc	ppm	ASTM D5185(m)		874	881	---
Sulfur	ppm	ASTM D5185(m)		2186	2213	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.0	16.5	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	13.7	13.8	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0022698
Lab Number : 02640711
Unique Number : 5789873
Test Package : MOB 1 (Additional Tests: Visual)

CUMMINS CANADA ULC - GENERATOR DIVISION
 7175 PACIFIC CIRCLE
 MISSISSAUGA, ON
 CA L5T 2A5
 Contact: Zaneef Abboobakar
 zaneef.abboobakar@cummins.com

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.

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