



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
ROGERS CALL CENTRE [154384]

Machine Id
CUMMINS

Component
Diesel Engine

Fluid
VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CU0023212	CU0020828	CU0020008
Sample Date		Client Info		23 May 2024	27 Jan 2023	13 Oct 2022
Machine Age	hrs	Client Info		268	238	230
Oil Age	hrs	Client Info		0	6	0
Filter Age	hrs	Client Info		0	6	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	2	2	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	1
Lead	ppm	ASTM D5185(m)	>40	<1	1	2
Copper	ppm	ASTM D5185(m)	>330	18	12	46
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

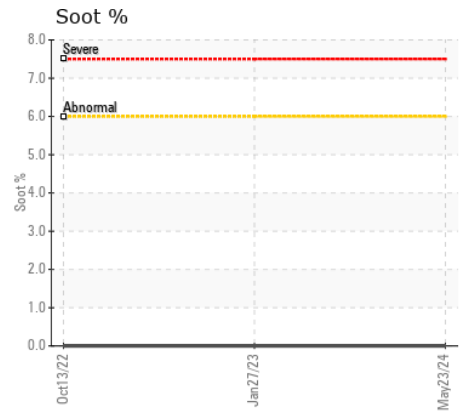
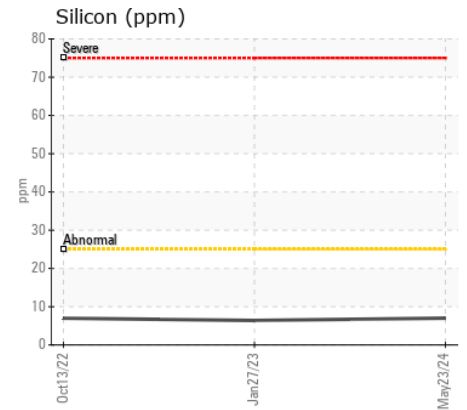
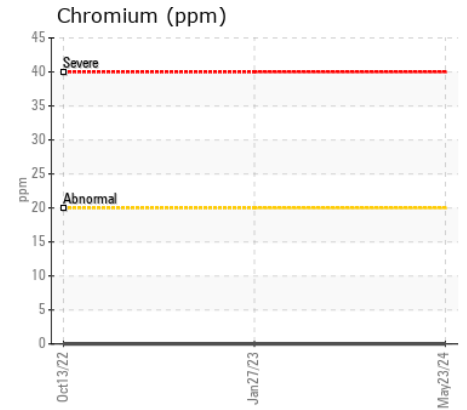
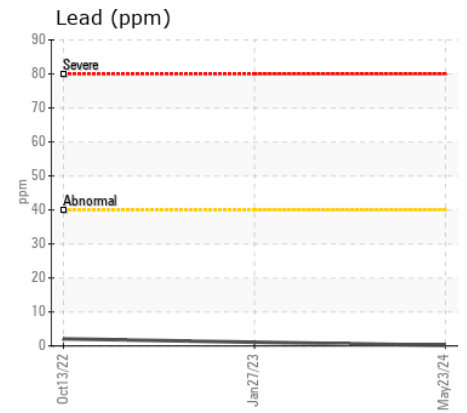
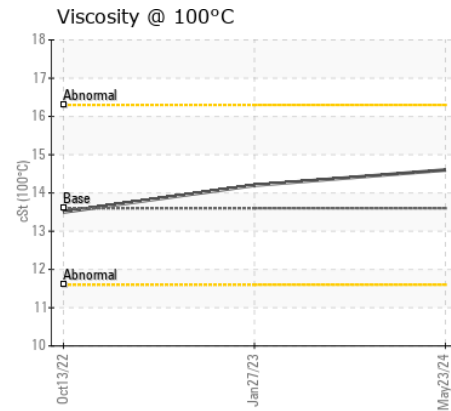
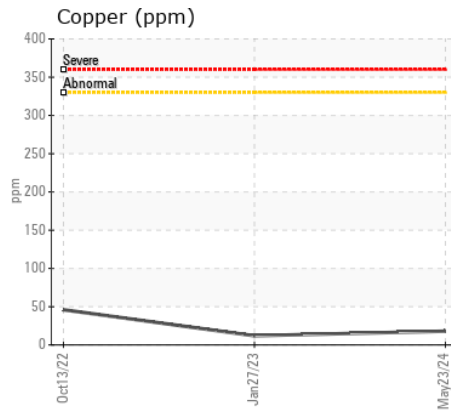
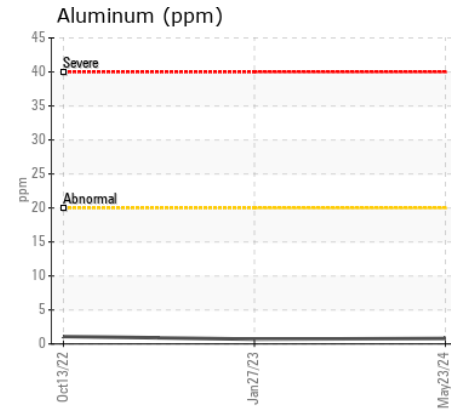
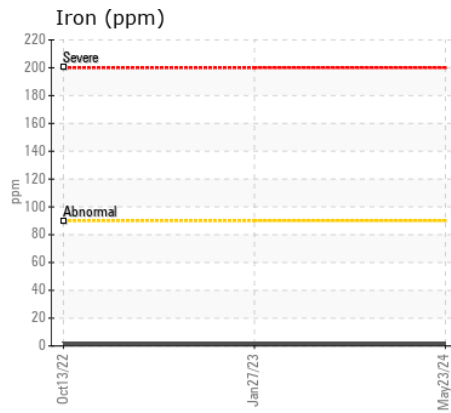
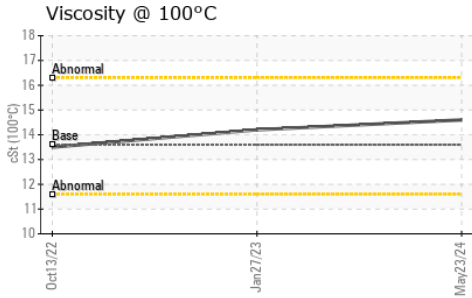
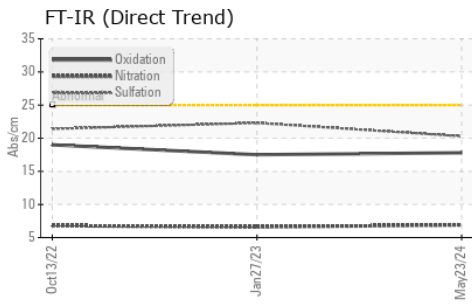
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	6	7
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.9	6.6	6.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.3	22.3	21.4
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		3	3	3
Boron	ppm	ASTM D5185(m)	39	43	46	73
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	49	45	41	24
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	616	758	727	566
Calcium	ppm	ASTM D5185(m)	1554	1105	1241	1567
Phosphorus	ppm	ASTM D5185(m)	899	684	747	783
Zinc	ppm	ASTM D5185(m)	1069	790	794	833
Sulfur	ppm	ASTM D5185(m)	2624	1887	1983	2335
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.8	17.5	19.0
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	14.6	14.2	13.5



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CUMMINS CANADA ULC - GENERATOR DIVISION**
Sample No. : CU0023212 **Received** : 24 Jun 2024 7175 PACIFIC CIRCLE
Lab Number : 02643704 **Tested** : 24 Jun 2024 MISSISSAUGA, ON
Unique Number : 5801243 **Diagnosed** : 24 Jun 2024 - Kevin Marson CA L5T 2A5
Test Package : MOB 1 **Contact**: Elisia Johnson

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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