



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
CIBC - 750 LAWRENCE [155635]

Machine Id
35226926

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		CU0023291	CU0016075	CU0013879
Sample Date		Client Info		23 Apr 2024	28 Apr 2020	27 Apr 2018
Machine Age	hrs	Client Info		382	272	225
Oil Age	hrs	Client Info		25	17	0
Filter Age	hrs	Client Info		25	17	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	7	5	2
Chromium	ppm	ASTM D5185(m)	>20	0	<1	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	2
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	3	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

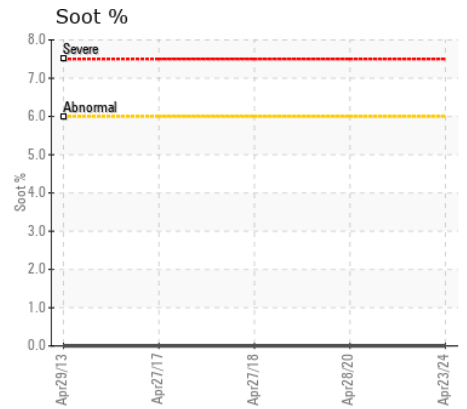
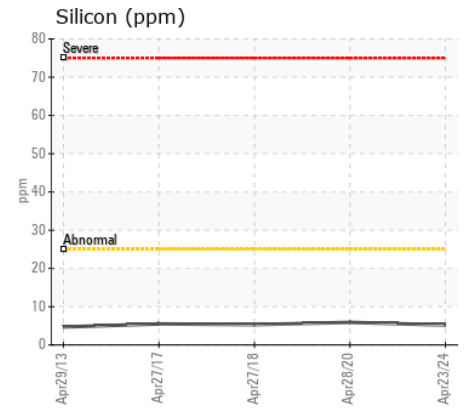
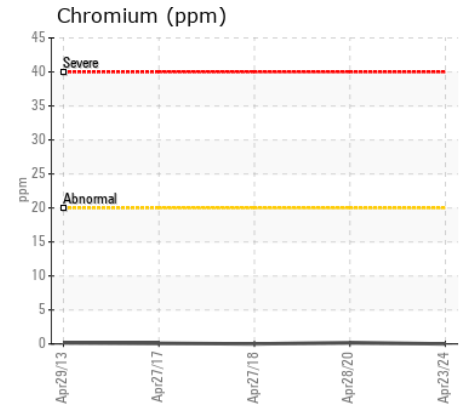
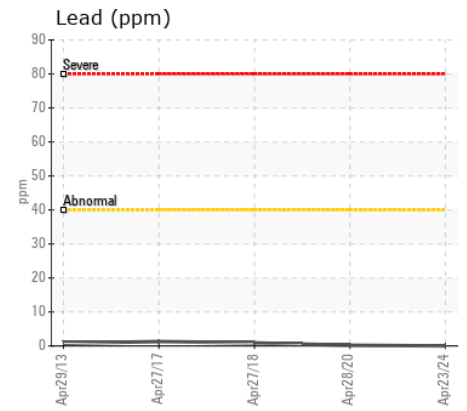
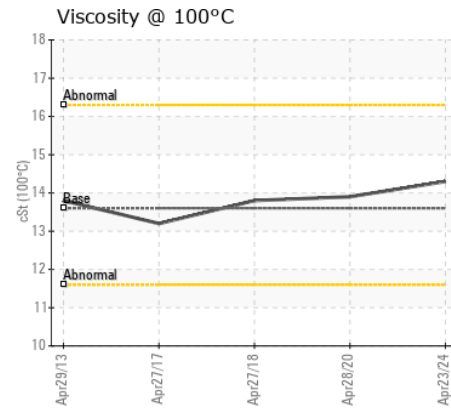
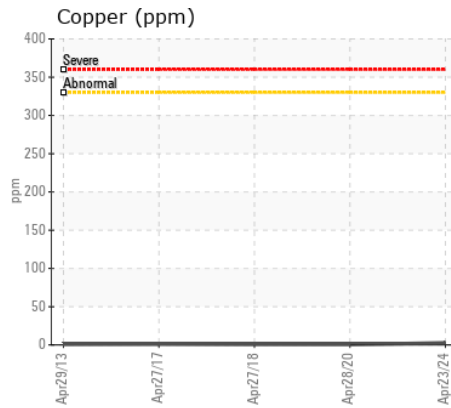
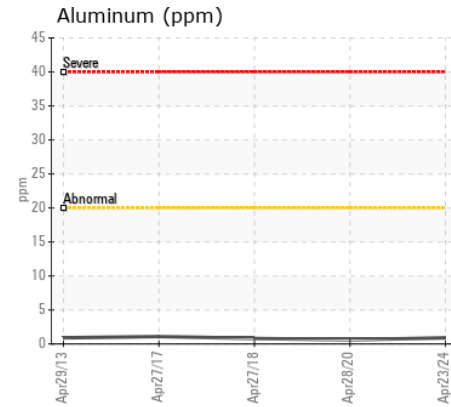
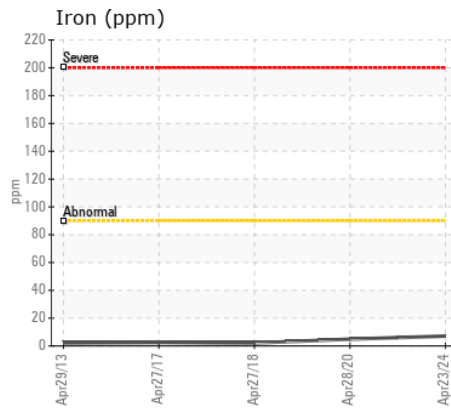
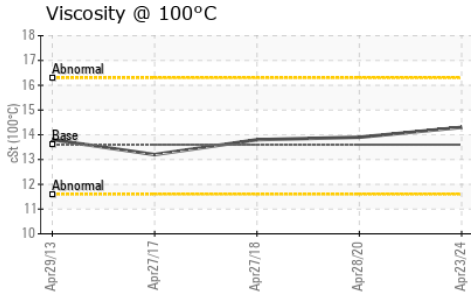
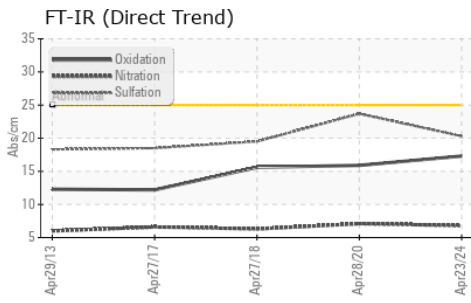
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	6	5
Potassium	ppm	ASTM D5185(m)	>20	0	<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	6.8	7.1	6.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.3	23.7	19.5
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	62	61
Barium	ppm	ASTM D5185(m)	1	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	49	48	47	47
Manganese	ppm	ASTM D5185(m)	1	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	616	814	618	649
Calcium	ppm	ASTM D5185(m)	1554	1197	1483	1439
Phosphorus	ppm	ASTM D5185(m)	899	732	1031	1034
Zinc	ppm	ASTM D5185(m)	1069	834	1198	1212
Sulfur	ppm	ASTM D5185(m)	2624	1996	2678	2679
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.3	15.9	15.6
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	14.3	13.9	13.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0023291
Lab Number : 02631895
Unique Number : 5773048
Test Package : MOB 1
Received : 29 Apr 2024
Tested : 29 Apr 2024
Diagnosed : 29 Apr 2024 - Wes Davis

CUMMINS CANADA ULC - GENERATOR DIVISION
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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.