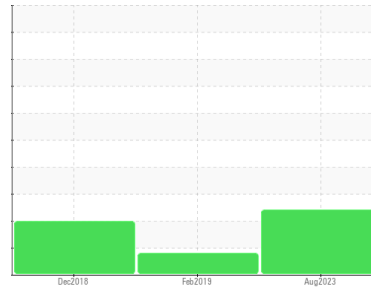


# OIL ANALYSIS REPORT

## Sample Rating Trend



**FUEL**



Area  
**TROY LIFE [6100176291]**  
Machine Id  
**CUMMINS 68020367**  
Component  
**Diesel Engine**  
Fluid  
**CASTROL 15W40 (--- GAL)**

### DIAGNOSIS

#### Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### Wear

Metal levels are typical for a new component breaking in.

#### Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

#### Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WA0019376</b>	WA0013761	WA0013597
Sample Date	Client Info			<b>03 Aug 2023</b>	06 Feb 2019	07 Dec 2018
Machine Age	hrs	Client Info		<b>125</b>	123	122
Oil Age	hrs	Client Info		<b>3</b>	3	0
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>SEVERE</b>	MARGINAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	<b>6</b>	3	9
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	1	2
Lead	ppm	ASTM D5185(m)	>40	<b>4</b>	1	6
Copper	ppm	ASTM D5185(m)	>330	<b>9</b>	2	12
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	0	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	<1

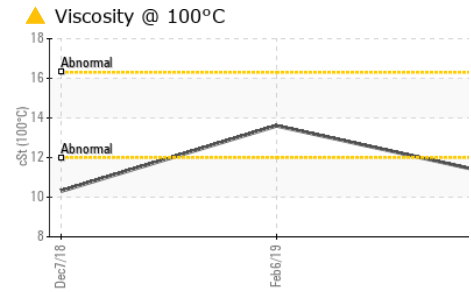
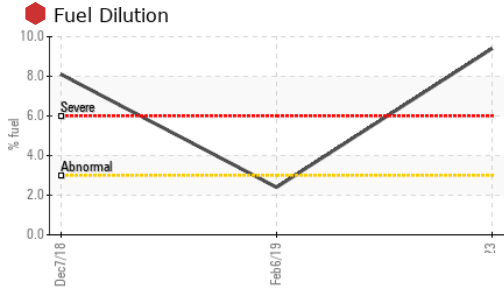
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>3</b>	2	11
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>48</b>	51	11
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>723</b>	793	10
Calcium	ppm	ASTM D5185(m)		<b>1302</b>	1330	2796
Phosphorus	ppm	ASTM D5185(m)		<b>1039</b>	1042	1047
Zinc	ppm	ASTM D5185(m)		<b>1141</b>	1231	1237
Sulfur	ppm	ASTM D5185(m)		<b>3005</b>	3243	5093
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>9</b>	5	13
Sodium	ppm	ASTM D5185(m)	>406	<b>3</b>	1	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Fuel	%	ASTM D7593*	>3.0	<b>9.4</b>	2.4	8.1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.5</b>	5.0	6.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.7</b>	18.5	18.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.3</b>	12.8	12.3

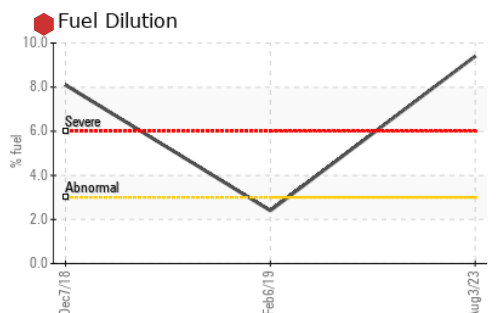
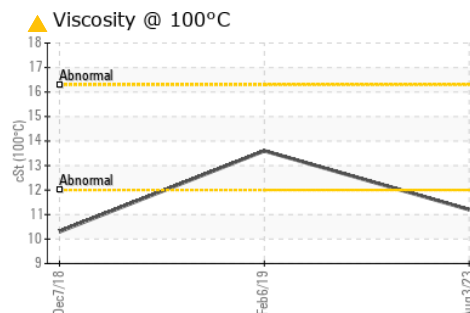
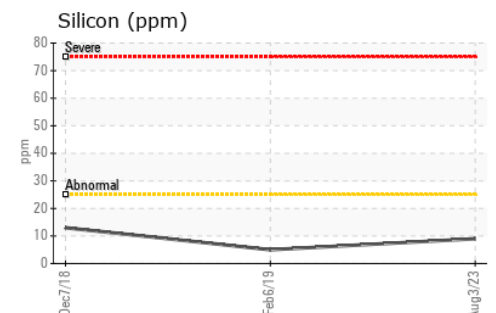
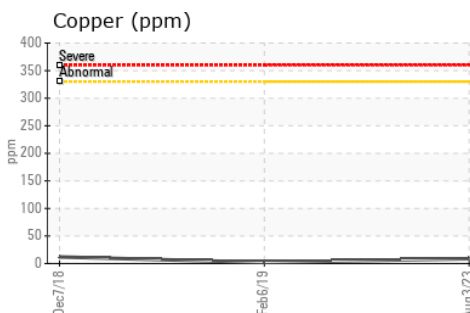
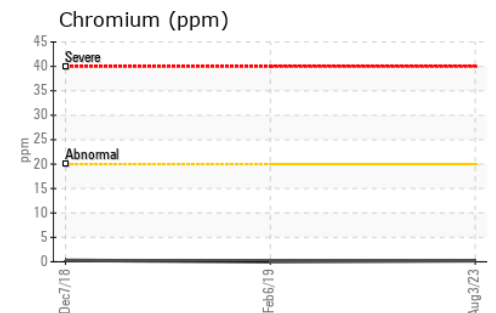
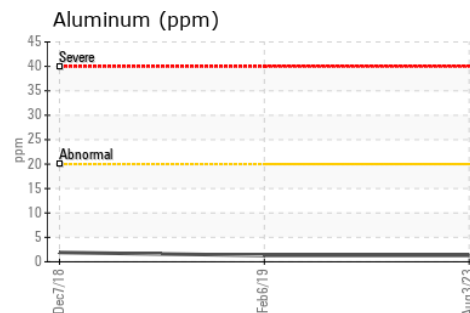
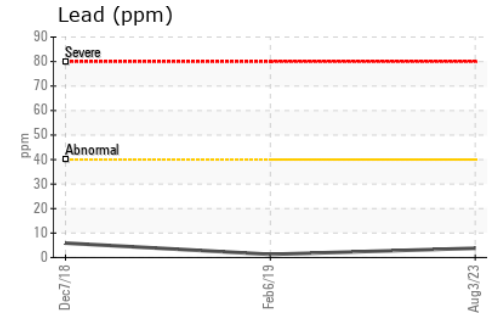
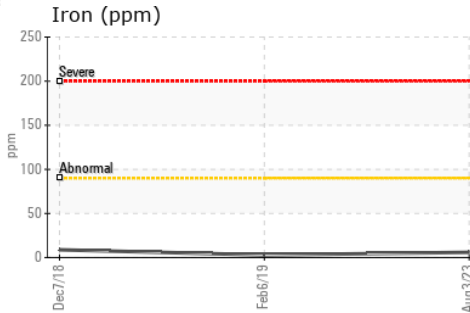
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	▲ 11.2	13.6	10.3

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0019376 **Received** : 10 Aug 2023  
**Lab Number** : 02575075 **Diagnosed** : 11 Aug 2023  
**Unique Number** : 5620126 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

**Wajax Power Systems**  
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 MONCTON, NB  
 CA E1H 2P4  
 Contact: Doug Balsler  
 dbalsler@wajax.com  
 T: (506)855-5371  
 F: (506)870-4448

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.