



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**

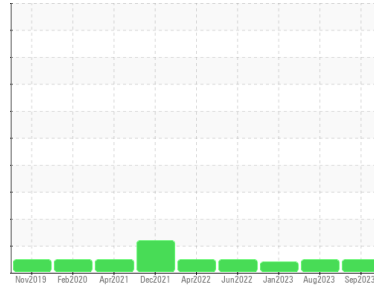


Area  
**[41221351]**

Machine Id  
**9484**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0853428</b>	WC0853323	WC0702969
Sample Date	Client Info			<b>03 Sep 2023</b>	27 Aug 2023	22 Jan 2023
Machine Age	kms	Client Info		<b>475014</b>	292452	340471
Oil Age	kms	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>3.0		<b>&lt;1.0</b>	<1.0	1.8
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>165	<b>27</b>	26	30
Chromium	ppm	ASTM D5185(m)	>5	<b>1</b>	1	1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	9	7
Lead	ppm	ASTM D5185(m)	>150	<b>2</b>	5	4
Copper	ppm	ASTM D5185(m)	>90	<b>2</b>	1	2
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<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	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	<b>27</b>	32	31
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>1</b>	4	16
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>578</b>	728	661
Calcium	ppm	ASTM D5185(m)	3000	<b>1610</b>	1366	1530
Phosphorus	ppm	ASTM D5185(m)	1150	<b>825</b>	723	817
Zinc	ppm	ASTM D5185(m)	1350	<b>902</b>	790	883
Sulfur	ppm	ASTM D5185(m)	4250	<b>2606</b>	2506	2625
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

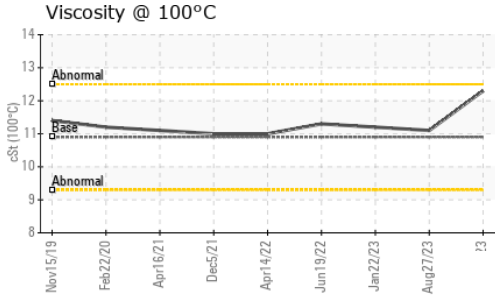
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>35	<b>4</b>	5	5
Sodium	ppm	ASTM D5185(m)		<b>3</b>	3	5
Potassium	ppm	ASTM D5185(m)	>20	<b>8</b>	19	14

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>7.5	<b>0.4</b>	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.1</b>	11.4	11.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>27.6</b>	25.5	25.3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>22.6</b>	21.7	19.6



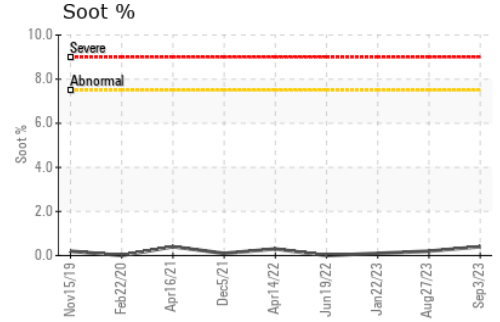
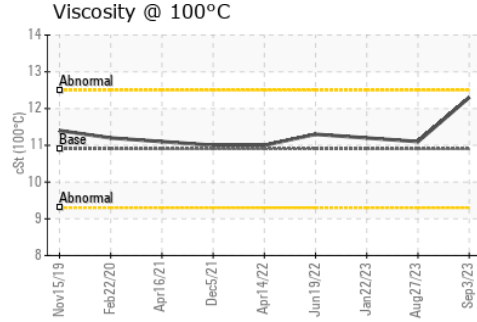
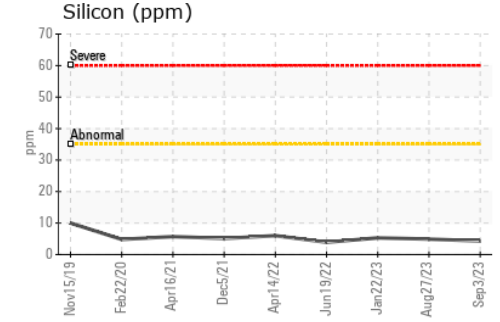
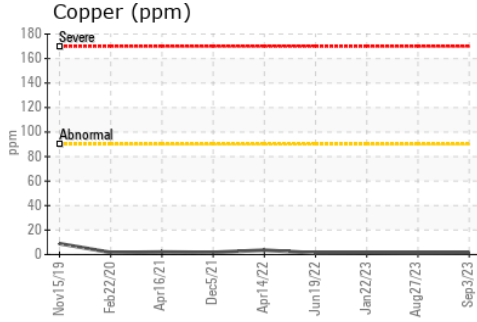
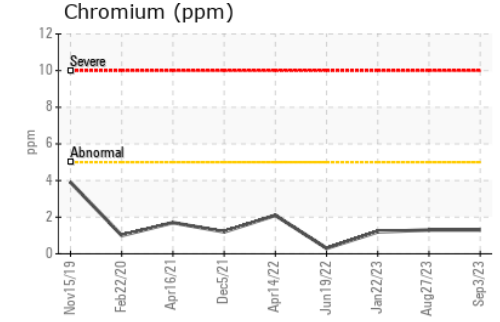
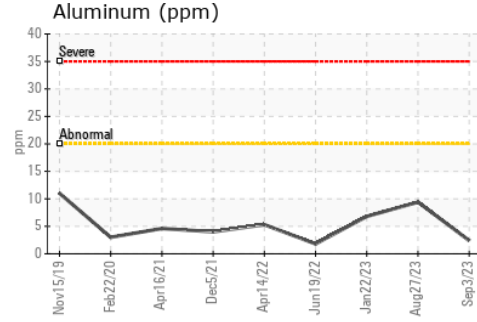
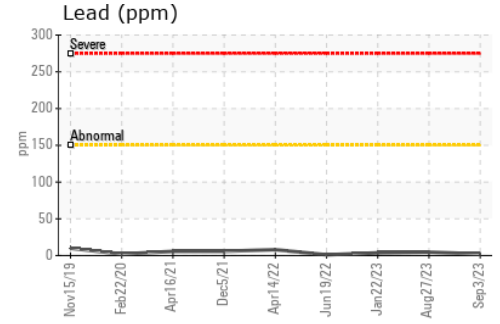
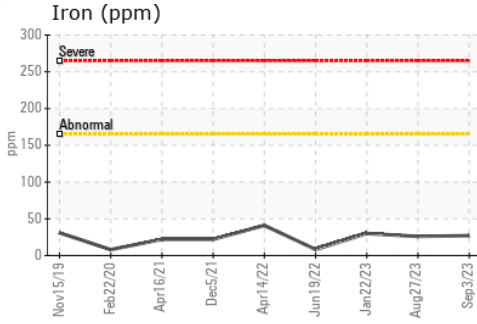
# OIL ANALYSIS REPORT



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)	10.9	12.3	11.1 ▲ 11.2

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0853428  
**Lab Number** : 02580600  
**Unique Number** : 5633660  
**Test Package** : MOB 1

**Received** : 06 Sep 2023  
**Diagnosed** : 06 Sep 2023  
**Diagnostician** : Kevin Marson

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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.