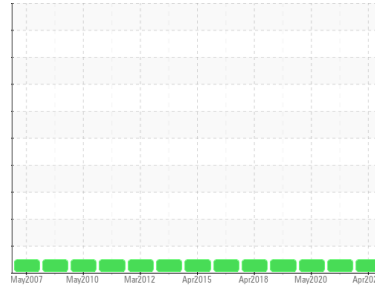




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**MITSUBISHI M0070**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 15W40 (30 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### 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	history 1	history 2
Sample Number	Client Info		<b>WC0709839</b>	WC0510667	WC0442635
Sample Date	Client Info		<b>18 Apr 2023</b>	05 May 2021	06 May 2020
Machine Age	hrs	Client Info	<b>295</b>	264	247
Oil Age	hrs	Client Info	<b>16</b>	88	71
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history 1	history 2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m) >100	<b>11</b>	11	11
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >20	<b>1</b>	1	1
Lead	ppm	ASTM D5185(m) >40	<b>5</b>	7	6
Copper	ppm	ASTM D5185(m) >330	<b>5</b>	6	6
Tin	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	1	1
Antimony	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<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	history 1	history 2
Boron	ppm	ASTM D5185(m) 250	<b>12</b>	19	24
Barium	ppm	ASTM D5185(m) 10	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m) 100	<b>11</b>	16	11
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 450	<b>161</b>	251	178
Calcium	ppm	ASTM D5185(m) 3000	<b>2043</b>	1909	2182
Phosphorus	ppm	ASTM D5185(m) 1150	<b>959</b>	932	1026
Zinc	ppm	ASTM D5185(m) 1350	<b>1046</b>	1141	1192
Sulfur	ppm	ASTM D5185(m) 4250	<b>2940</b>	3022	3181
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m) >25	<b>4</b>	4	3
Sodium	ppm	ASTM D5185(m) >158	<b>2</b>	3	2
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	3	3

## INFRA-RED

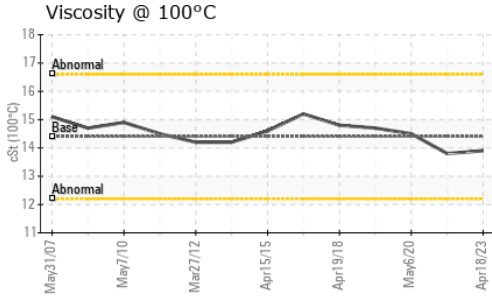
	method	limit/base	current	history 1	history 2
Soot %	%	ASTM D7844* >3	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	ASTM D7624* >20	<b>7.2</b>	7.4	8.3
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>17.8</b>	20.0	24.0

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	ASTM D7414* >25	<b>14.3</b>	17.1	17.7



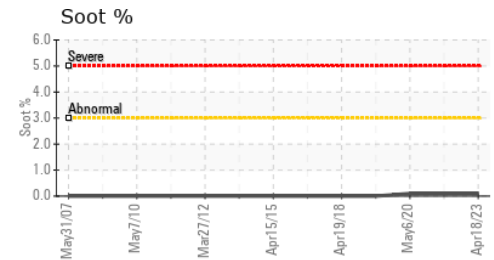
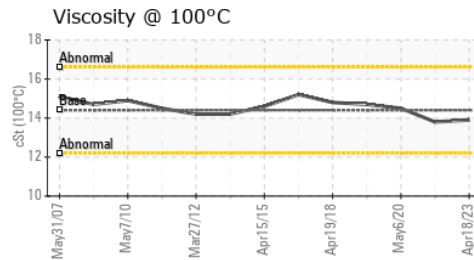
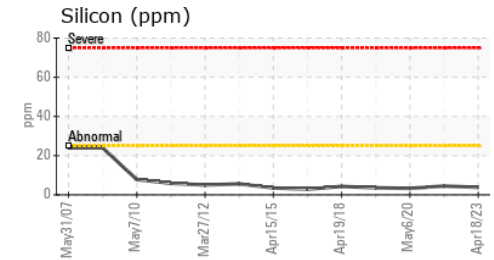
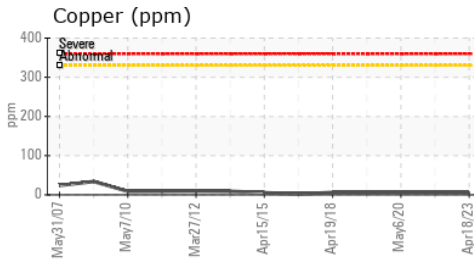
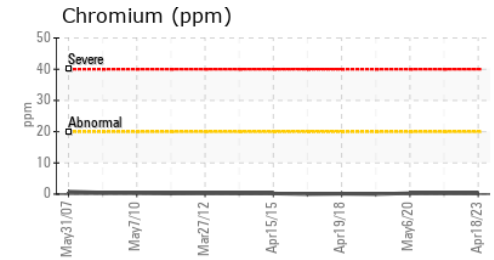
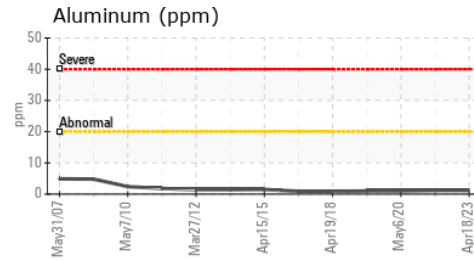
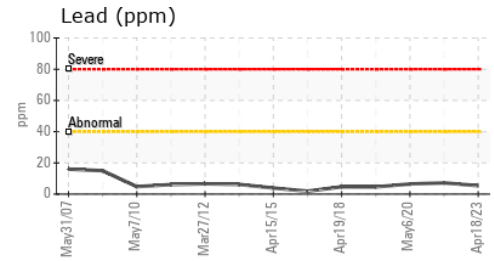
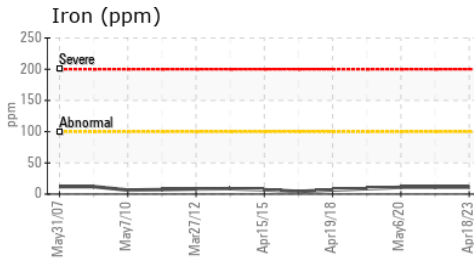
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.9</b>	13.8	14.5

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0709839      **Received** : 20 Jun 2023  
**Lab Number** : 02565225      **Diagnosed** : 21 Jun 2023  
**Unique Number** : 5594266      **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**GENCARE SERVICES LTD.**  
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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.