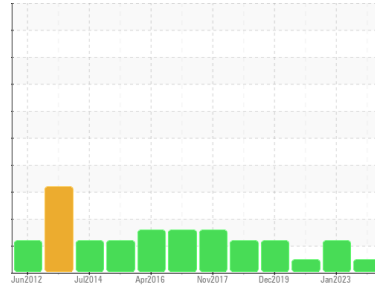


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**KME L20**

Component  
**Front Diesel Engine**

Fluid  
**SAFETY-KLEEN PERFORMANCE PLUS XHD-7 15W40 (38 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

Test for glycol is negative. 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>PC0078177</b>	PC0054295	PC0028926
Sample Date	Client Info		<b>17 Feb 2024</b>	20 Jan 2023	04 May 2021
Machine Age	kms	Client Info	<b>35717</b>	23174	6740
Oil Age	kms	Client Info	<b>12000</b>	10000	1740
Oil Changed	Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status			<b>NORMAL</b>	ATTENTION	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	0.5
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>85	<b>48</b>	67	13
Chromium	ppm	ASTM D5185(m)	>5	<b>6</b>	7	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>40	<b>6</b>	5	1
Lead	ppm	ASTM D5185(m)	>25	<b>6</b>	5	<1
Copper	ppm	ASTM D5185(m)	>350	<b>9</b>	18	3
Tin	ppm	ASTM D5185(m)	>5	<b>2</b>	3	1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	0
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)		<b>3</b>	15	16
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>62</b>	78	53
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	3	<1
Magnesium	ppm	ASTM D5185(m)		<b>945</b>	930	884
Calcium	ppm	ASTM D5185(m)		<b>1074</b>	1092	1166
Phosphorus	ppm	ASTM D5185(m)		<b>909</b>	947	1014
Zinc	ppm	ASTM D5185(m)		<b>1173</b>	1202	1245
Sulfur	ppm	ASTM D5185(m)		<b>2478</b>	2669	2793
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

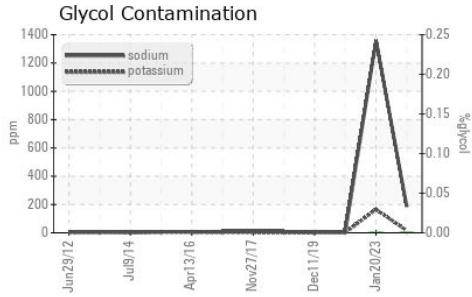
## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>40	<b>14</b>	44	9
Sodium	ppm	ASTM D5185(m)		<b>186</b>	1360	4
Potassium	ppm	ASTM D5185(m)	>20	<b>16</b>	165	2
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	NEG

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.7</b>	0.6	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.1</b>	14.0	6.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>26.4</b>	29.4	19.4

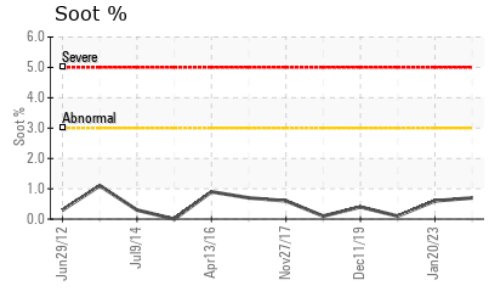
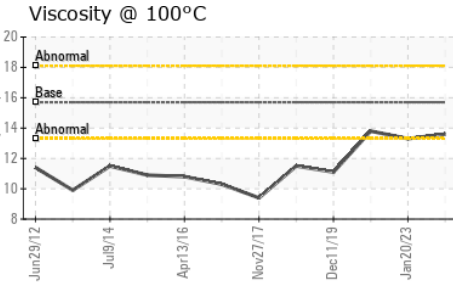
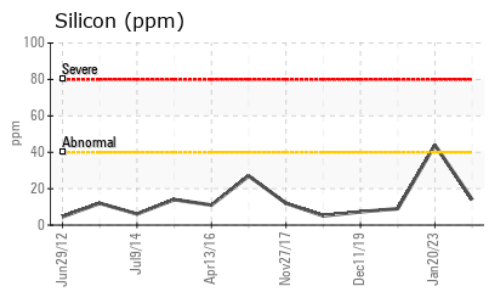
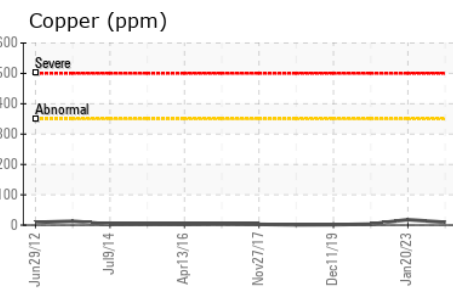
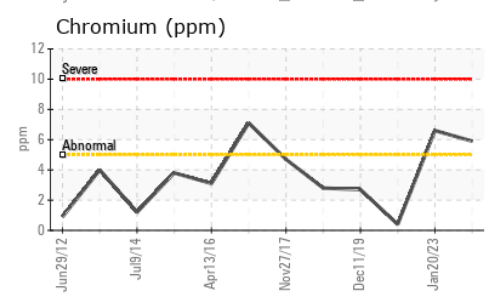
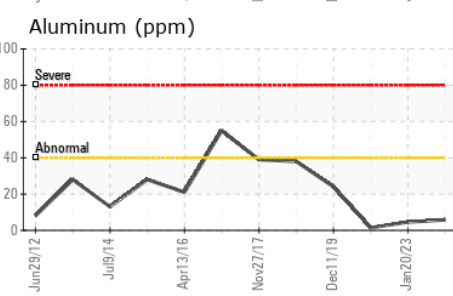
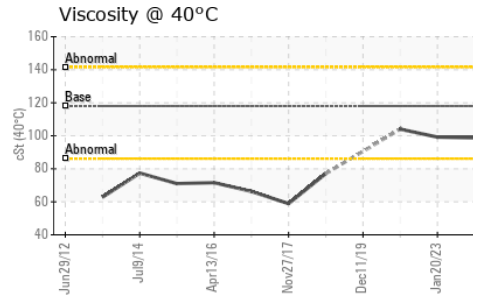
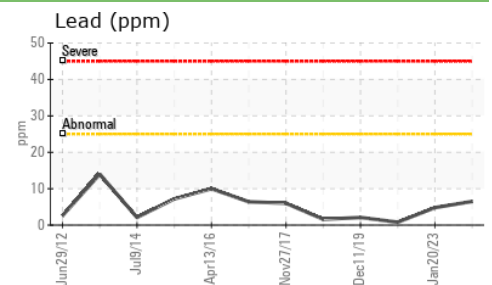
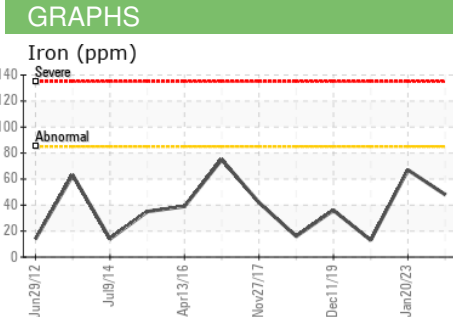
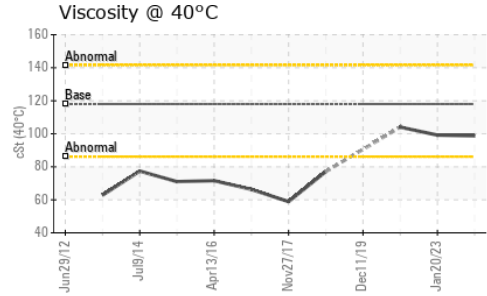
# OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	21.1	14.2

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 @ 40°C	cSt	ASTM D7279(m)	118	99.2	104
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	13.3	13.8
Viscosity Index (VI)	Scale	ASTM D2270*	140	132	133



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0078177  
**Lab Number** : 02619897  
**Unique Number** : 5737007  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KV40, VI )  
**Received** : 05 Mar 2024  
**Tested** : 05 Mar 2024  
**Diagnosed** : 05 Mar 2024 - Wes Davis

**HAMILTON FIRE DEPT**  
 MECHANICAL DIV., 177 BAY STREET NORTH  
 HAMILTON, ON  
 CA L8R 2P8  
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 F: (905)961-9116

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.