

Machine Id  
**KME 300926 E-17**

Component  
**Front Diesel Engine**

Fluid  
**SAFETY-KLEEN PERFORMANCE PLUS XHD-7 15W40 (40 LTR)**

**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>PC0078208</b>	PC0054315	PC0029024
Sample Date	Client Info			<b>23 Oct 2023</b>	27 Sep 2022	13 Jul 2021
Machine Age	kms	Client Info		<b>120000</b>	107326	95580
Oil Age	kms	Client Info		<b>13000</b>	0	5000
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method		>2.0	<b>&lt;1.0</b>	<1.0	<1.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>127	<b>24</b>	32	13
Chromium	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>30	<b>5</b>	10	8
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>59	<b>15</b>	38	10
Lead	ppm	ASTM D5185(m)	>29	<b>3</b>	2	<1
Copper	ppm	ASTM D5185(m)	>135	<b>3</b>	4	1
Tin	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</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

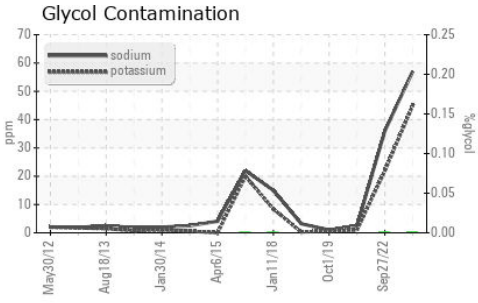
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>2</b>	1	1
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>78</b>	66	61
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>1148</b>	1000	1045
Calcium	ppm	ASTM D5185(m)		<b>1290</b>	1135	1067
Phosphorus	ppm	ASTM D5185(m)		<b>1077</b>	1046	1142
Zinc	ppm	ASTM D5185(m)		<b>1395</b>	1228	1274
Sulfur	ppm	ASTM D5185(m)		<b>3009</b>	2682	2765
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>18	<b>9</b>	13	5
Sodium	ppm	ASTM D5185(m)		<b>57</b>	36	2
Potassium	ppm	ASTM D5185(m)	>20	<b>45</b>	22	1
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>1.1</b>	1.7	0.8
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.2</b>	12.9	9.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>25.1</b>	26.2	21.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.2</b>	19.5	15.9

# OIL ANALYSIS REPORT

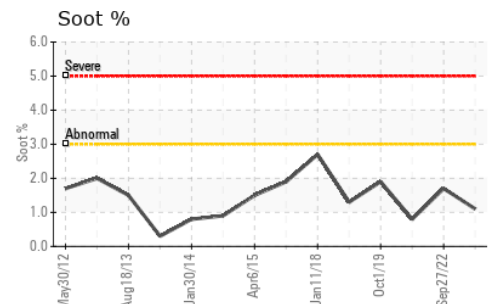
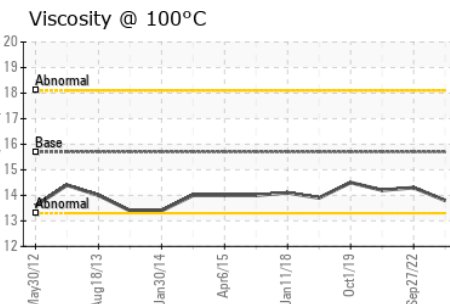
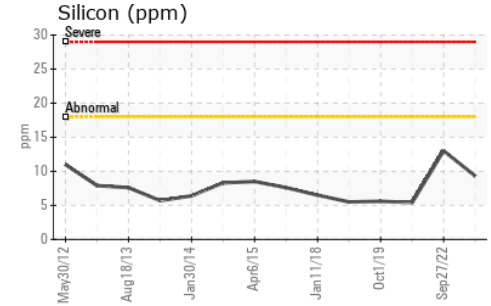
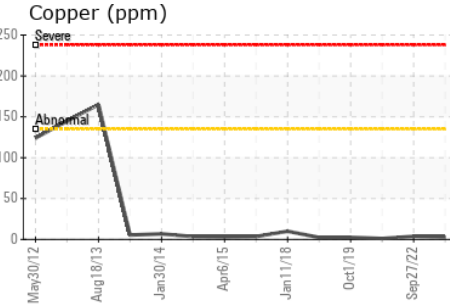
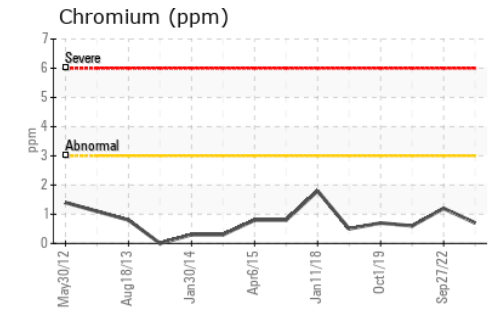
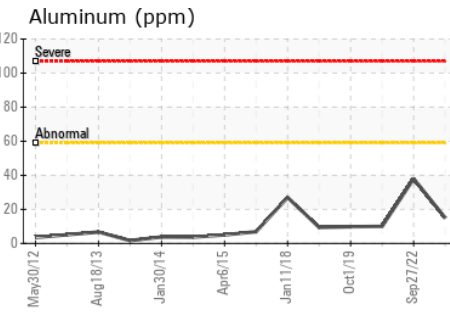
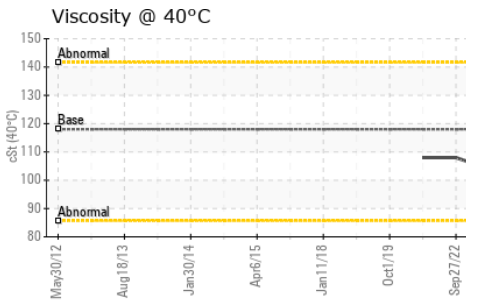
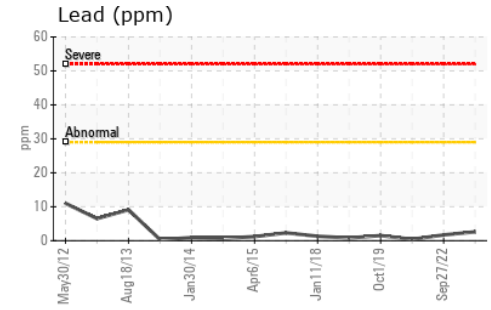
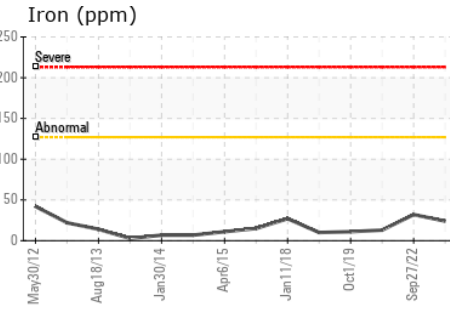
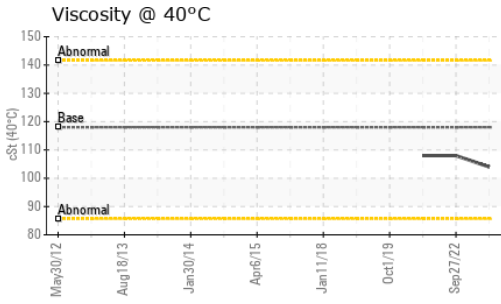


VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	118	<b>104</b>	108	108
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	<b>13.8</b>	14.3	14.2
Viscosity Index (VI)	Scale	ASTM D2270*	140	<b>133</b>	134	133

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0078208  
**Lab Number** : 02592904  
**Unique Number** : 5669983  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KV40, VI )

**HAMILTON FIRE DEPT**  
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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.