

Machine Id  
**351040**  
Component  
**Diesel Engine**  
Fluid  
**SCHAEFFER SUPREME 9000 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0078051</b>	PC0075319	PC0056413
Sample Date		Client Info		<b>17 Aug 2023</b>	07 Jun 2023	23 May 2023
Machine Age	kms	Client Info		<b>197444</b>	0	0
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>10</b>	12	6
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	3	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

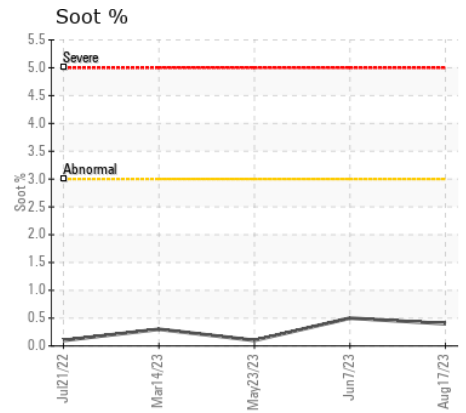
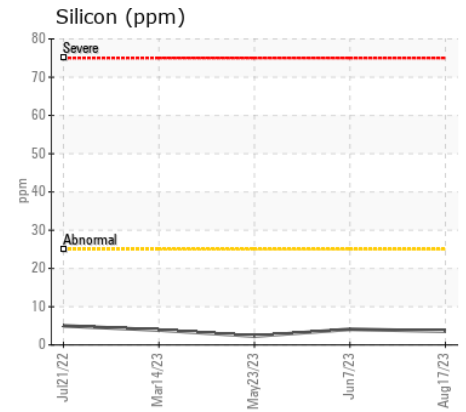
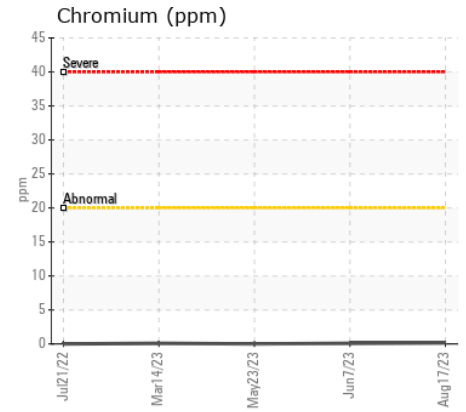
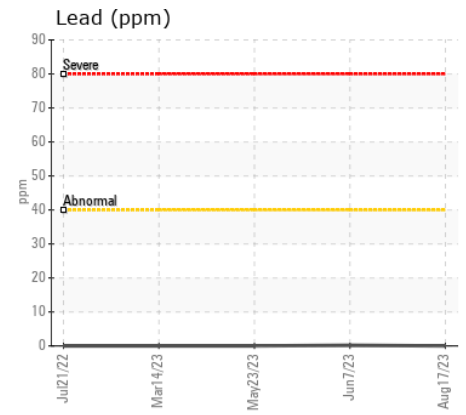
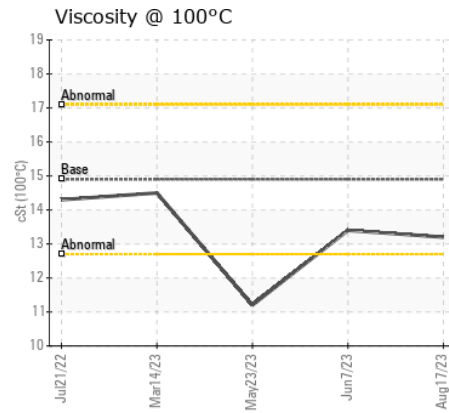
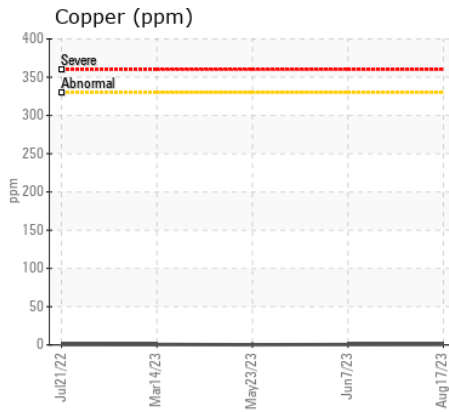
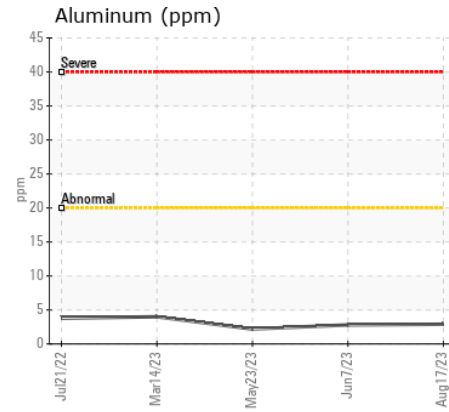
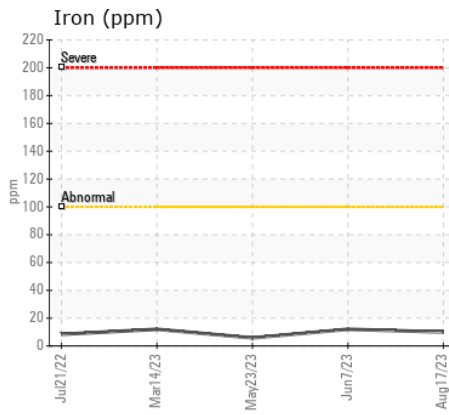
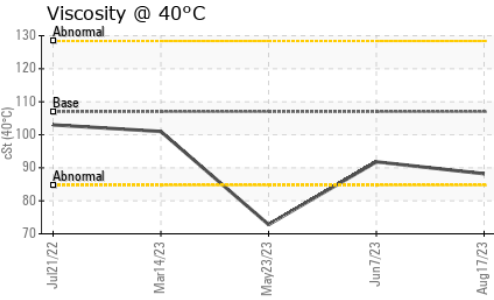
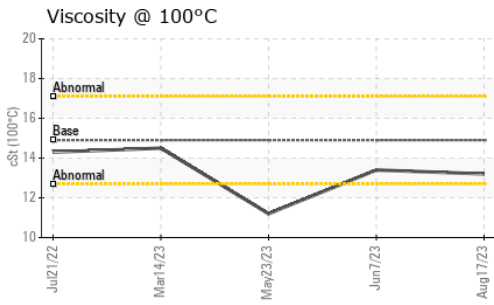
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	4	2
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	0
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	1.6
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.4</b>	0.5	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.8</b>	11.6	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.8</b>	23.3	18.1
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		<b>4</b>	4	<1
Boron	ppm	ASTM D5185(m)	95	<b>38</b>	43	5
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	75	<b>66</b>	73	61
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	8	<b>20</b>	20	1009
Calcium	ppm	ASTM D5185(m)	2230	<b>1951</b>	2258	1121
Phosphorus	ppm	ASTM D5185(m)	1061	<b>922</b>	1067	1102
Zinc	ppm	ASTM D5185(m)	1143	<b>1064</b>	1154	1203
Sulfur	ppm	ASTM D5185(m)	4879	<b>3917</b>	4109	2689
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>21.7</b>	21.0	14.1
Visc @ 40°C	cSt	ASTM D7279(m)	107	<b>88.2</b>	91.8	▲ 72.8
Visc @ 100°C	cSt	ASTM D7279(m)	14.9	<b>13.2</b>	13.4	▲ 11.2
Viscosity Index (VI)	Scale	ASTM D2270*	145	<b>150</b>	146	145



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations  
**Sample No.** : PC0078051 **Received** : 10 Jan 2024  
**Lab Number** : 02607745 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 5708831 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

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 CA L4A 2G8  
 Contact: Bill Acton  
 bacton@gipi.com

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.

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