



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**CHAMPION 740A G-3 (S/N 740A-127-812-23160)**  
Component  
**Rear Diesel Engine**  
Fluid  
**SAFETY-KLEEN PERFORMANCE PLUS SHD 15W40 (38 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0922840</b>	WC0772763	WC0772808
Sample Date		Client Info		<b>03 Jul 2024</b>	05 Mar 2024	06 Mar 2023
Machine Age	hrs	Client Info		<b>14884</b>	14742	14588
Oil Age	hrs	Client Info		<b>153</b>	11	282
Filter Age	hrs	Client Info		<b>153</b>	11	282
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	<b>7</b>	5	24
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	1	9
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	0	13
Copper	ppm	ASTM D5185(m)	>330	<b>8</b>	<1	16
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

## CONTAMINATION

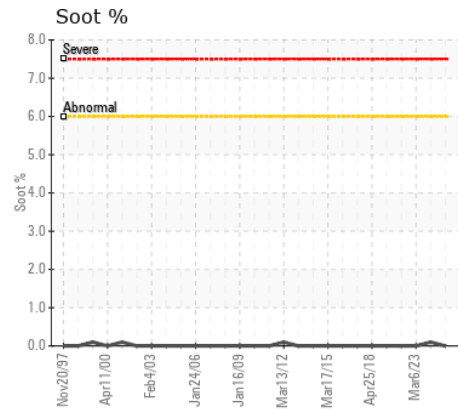
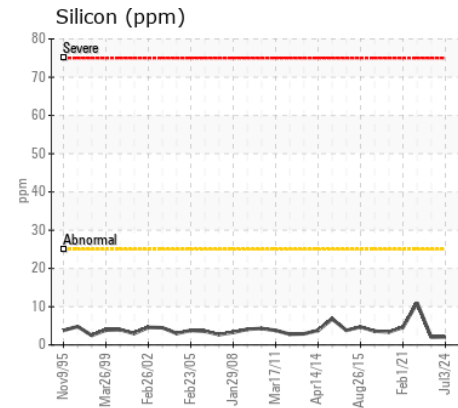
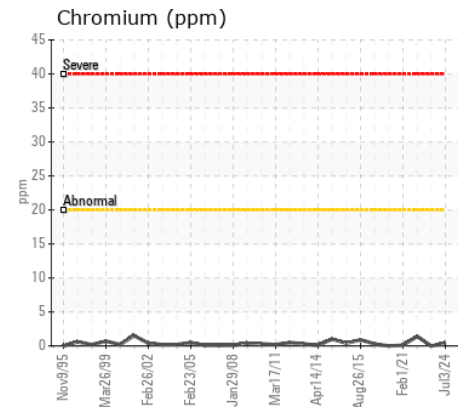
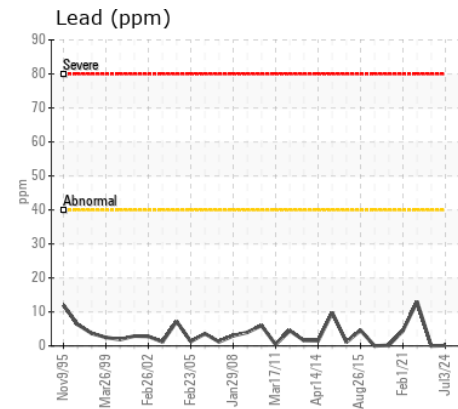
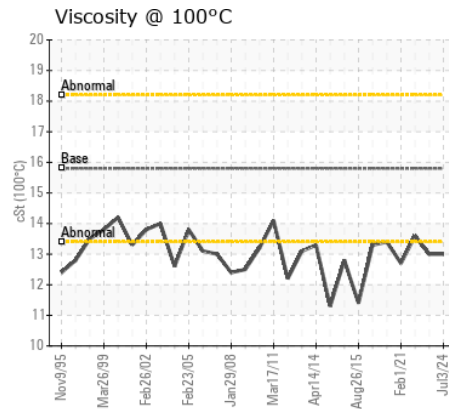
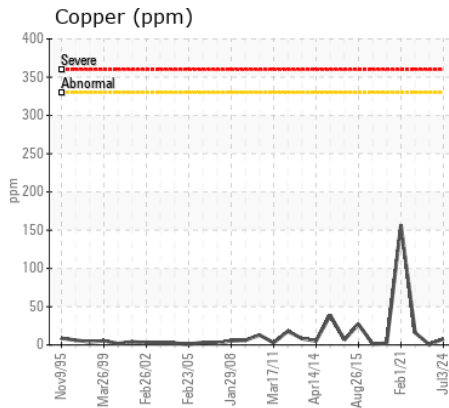
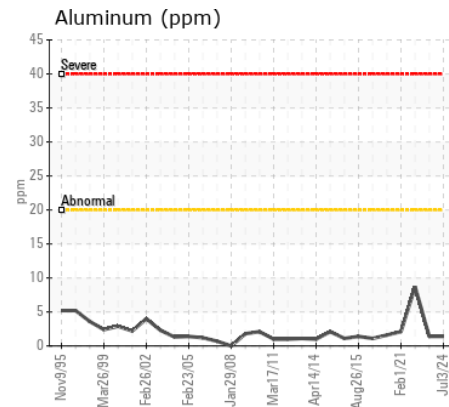
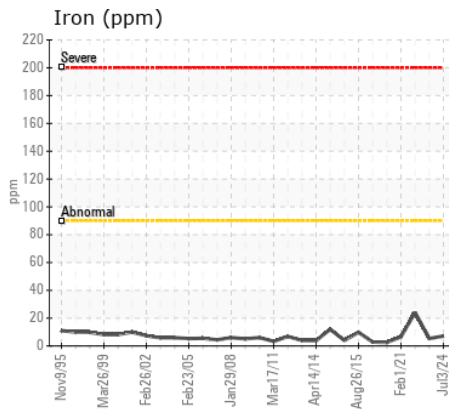
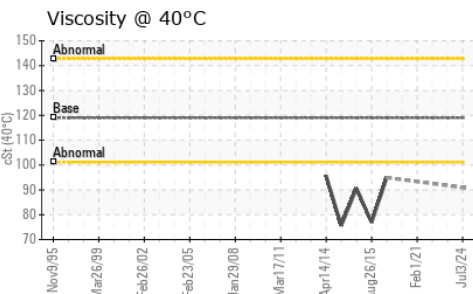
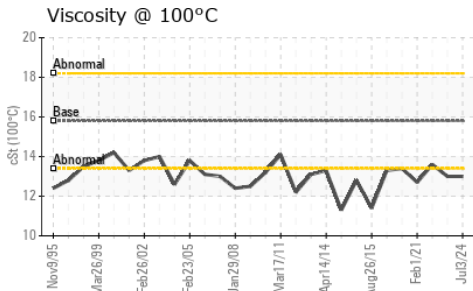
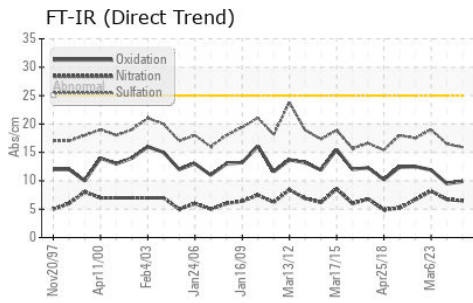
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	2	11
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	4
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	▲ 2.3	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>6	<b>0</b>	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.5</b>	6.7	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>15.9</b>	16.5	19.0
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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>2</b>	2	70
Boron	ppm	ASTM D5185(m)	0	<b>8</b>	14	18
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>8</b>	12	20
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	0	<b>33</b>	41	95
Calcium	ppm	ASTM D5185(m)	2800	<b>2182</b>	2140	2075
Phosphorus	ppm	ASTM D5185(m)	1200	<b>824</b>	855	974
Zinc	ppm	ASTM D5185(m)	1350	<b>960</b>	964	1037
Sulfur	ppm	ASTM D5185(m)	5500	<b>2874</b>	3011	2939
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>9.9</b>	9.5	11.9
Visc @ 40°C	cSt	ASTM D7279(m)	119.0	<b>90.9</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.8	<b>13.0</b>	▲ 13.0	13.6
Viscosity Index (VI)	Scale	ASTM D2270*	140	<b>141</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0922840  
**Lab Number** : 02645738  
**Unique Number** : 5803277  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

**MIDDLESEX COUNTY ROAD DEPARTMENT**  
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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.