



# OIL ANALYSIS REPORT

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

Machine Id  
**1830**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0895801</b>	WC0873841	WC0858488
Sample Date		Client Info		<b>15 Jan 2024</b>	17 Nov 2023	26 Sep 2023
Machine Age	hrs	Client Info		<b>21027</b>	20541	19980
Oil Age	hrs	Client Info		<b>488</b>	561	500
Filter Age	hrs	Client Info		<b>488</b>	561	500
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>10</b>	14	13
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	<1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>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

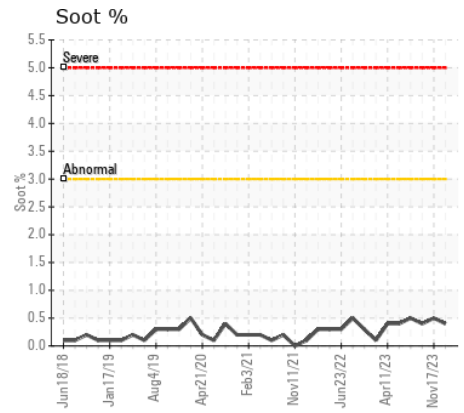
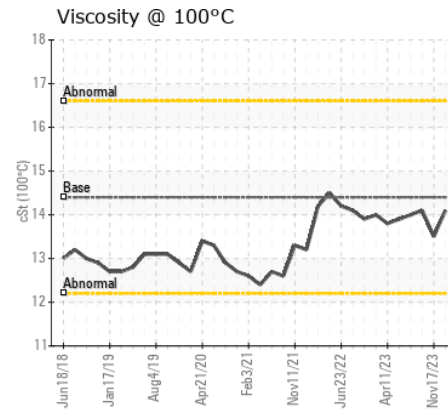
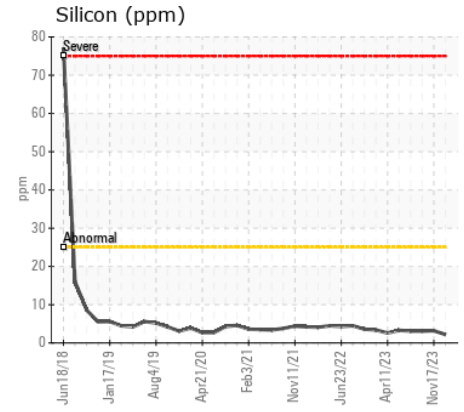
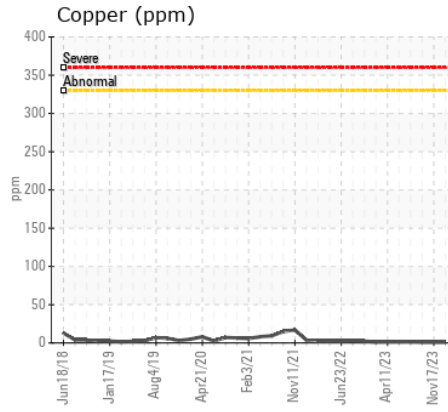
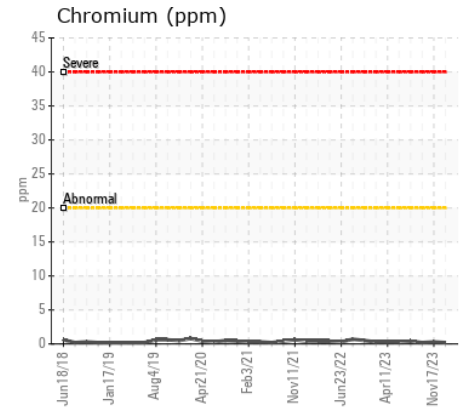
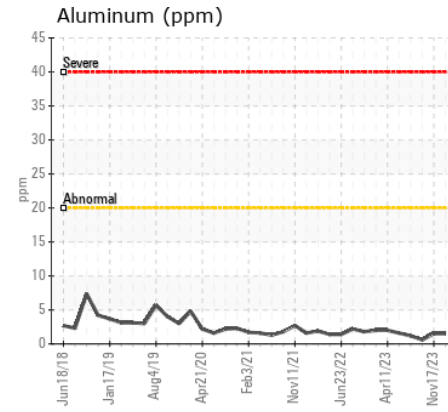
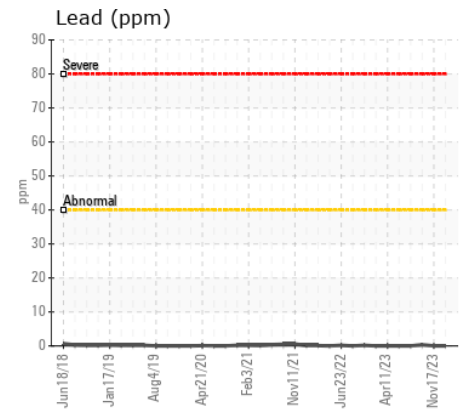
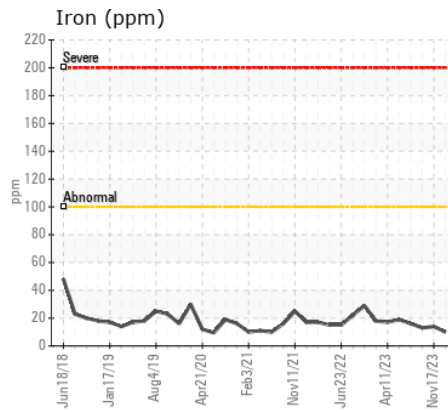
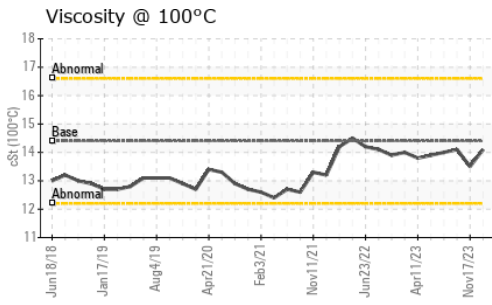
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	0	3
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
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	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.3</b>	10.8	9.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.9</b>	26.3	23.7
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)	>158	<b>&lt;1</b>	2	2
Boron	ppm	ASTM D5185(m)	250	<b>2</b>	1	2
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	<b>58</b>	58	61
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	450	<b>938</b>	900	961
Calcium	ppm	ASTM D5185(m)	3000	<b>1041</b>	1016	1057
Phosphorus	ppm	ASTM D5185(m)	1150	<b>965</b>	851	984
Zinc	ppm	ASTM D5185(m)	1350	<b>1161</b>	1125	1197
Sulfur	ppm	ASTM D5185(m)	4250	<b>2650</b>	2399	2502
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.1</b>	29.2	23.4
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>14.1</b>	13.5	14.1



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0895801  
**Lab Number** : 02610101  
**Unique Number** : 5711187  
**Test Package** : MOB 1

**Received** : 22 Jan 2024  
**Diagnosed** : 22 Jan 2024  
**Diagnostician** : Wes Davis

**KINGSTON TRANSIT**  
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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.