



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1684
 Component
Rear Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. 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		WC0938942	WC0925686	WC0905428
Sample Date		Client Info		30 May 2024	09 Apr 2024	08 Feb 2024
Machine Age	hrs	Client Info		0	9293	8769
Oil Age	hrs	Client Info		502	524	475
Filter Age	hrs	Client Info		502	524	475
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	37	32	26
Chromium	ppm	ASTM D5185(m)	>20	1	1	1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	2	2
Lead	ppm	ASTM D5185(m)	>40	<1	0	<1
Copper	ppm	ASTM D5185(m)	>330	3	2	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

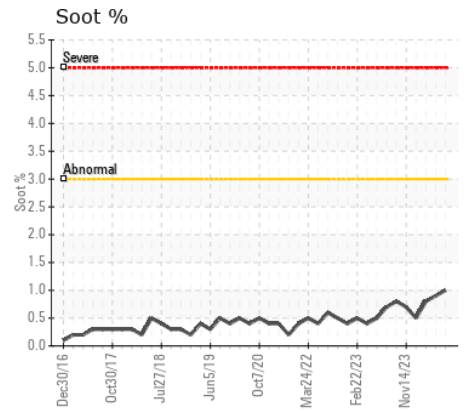
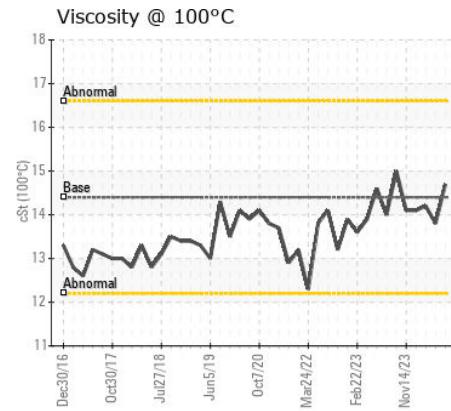
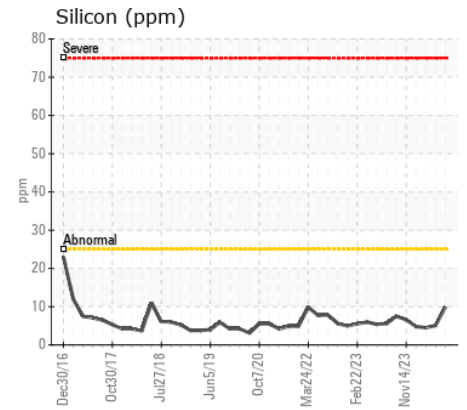
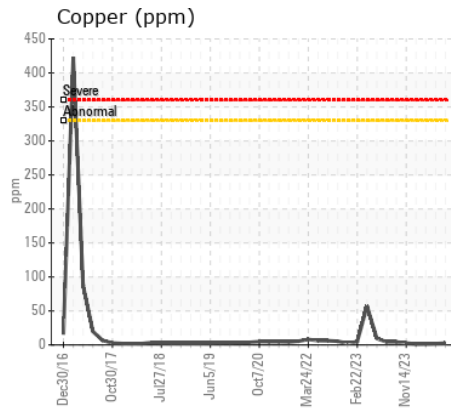
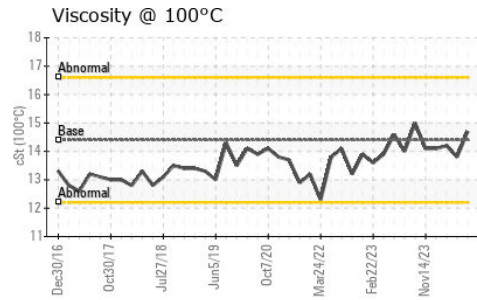
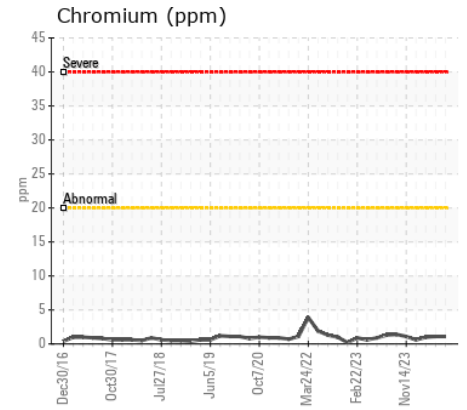
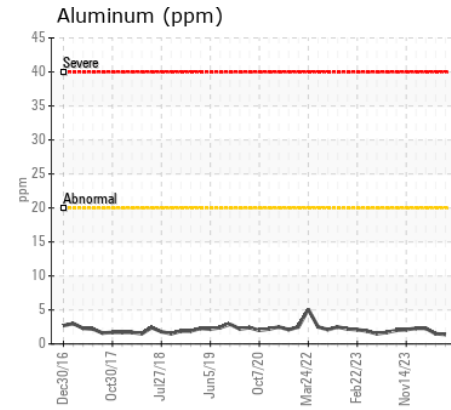
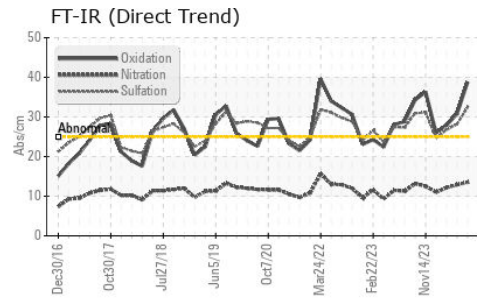
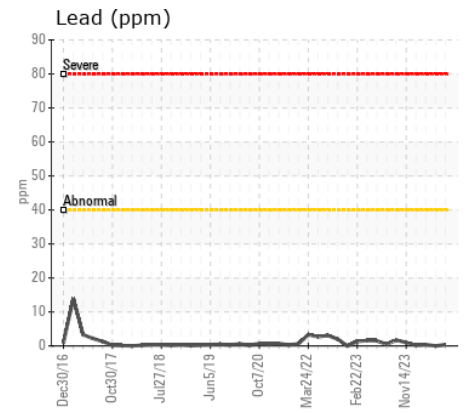
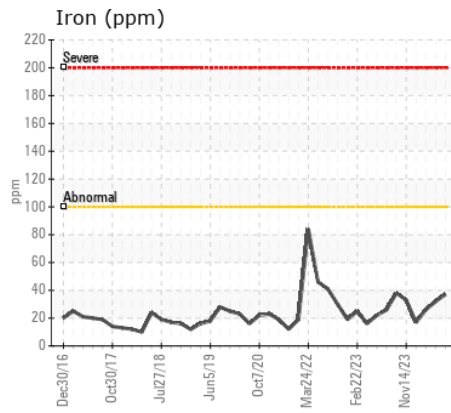
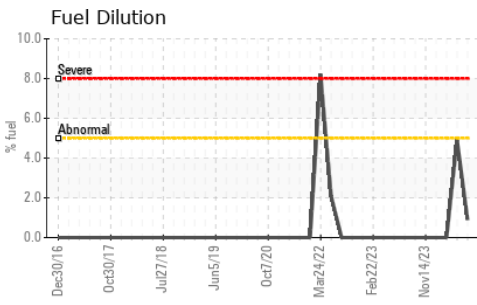
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	10	5	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>5	0.9	▲ 4.9	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	1	0.9	0.8
Nitration	Abs/cm	ASTM D7624*	>20	13.5	12.9	12.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	32.5	28.2	26.8
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	3	2	2
Boron	ppm	ASTM D5185(m)	250	2	2	2
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	62	61	60
Manganese	ppm	ASTM D5185(m)		<1	<1	0
Magnesium	ppm	ASTM D5185(m)	450	1006	982	995
Calcium	ppm	ASTM D5185(m)	3000	1134	1076	1134
Phosphorus	ppm	ASTM D5185(m)	1150	1014	969	1016
Zinc	ppm	ASTM D5185(m)	1350	1224	1184	1202
Sulfur	ppm	ASTM D5185(m)	4250	2447	2301	2627
Oxidation	Abs/.1mm	ASTM D7414*	>25	38.8	30.8	27.9
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.7	13.8	14.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0938942
Lab Number : 02640127
Unique Number : 5789289
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel, Visual)
Received : 06 Jun 2024
Tested : 10 Jun 2024
Diagnosed : 10 Jun 2024 - Wes Davis

KINGSTON TRANSIT
 1181 JOHN COUNTER BLVD
 KINGSTON, ON
 CA K7K 6C7
 Contact: Brent Gunter
 bgunter@cityofkingston.ca
 T: (613)546-4291
 F: (613)542-1504

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.