



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2102
 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		WC0925672	WC0905443	WC0883011
Sample Date		Client Info		12 Apr 2024	06 Mar 2024	02 Feb 2024
Machine Age	hrs	Client Info		13839	13321	12941
Oil Age	hrs	Client Info		513	380	528
Filter Age	hrs	Client Info		513	380	528
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	10	8	11
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	1	<1	2
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	3	2	3
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

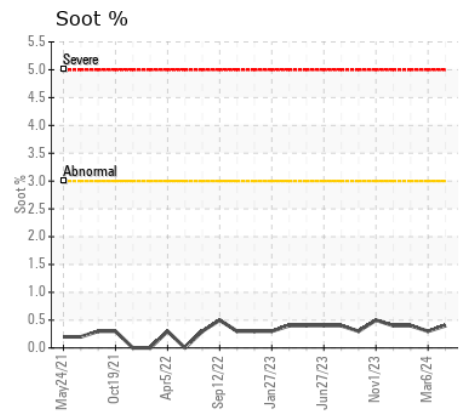
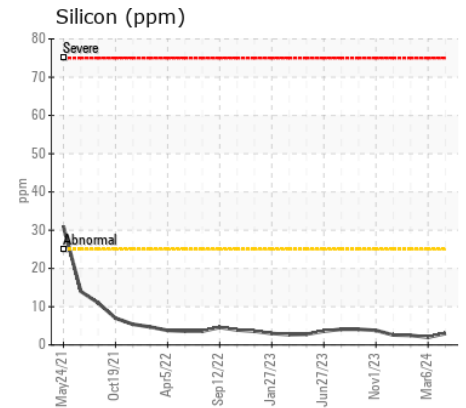
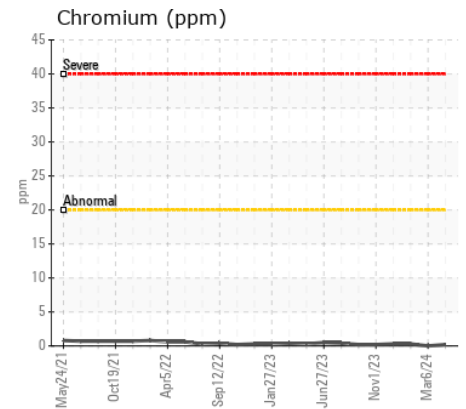
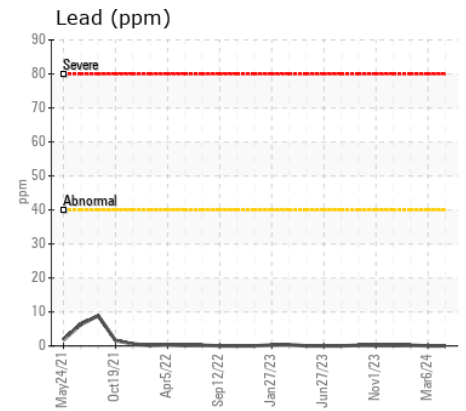
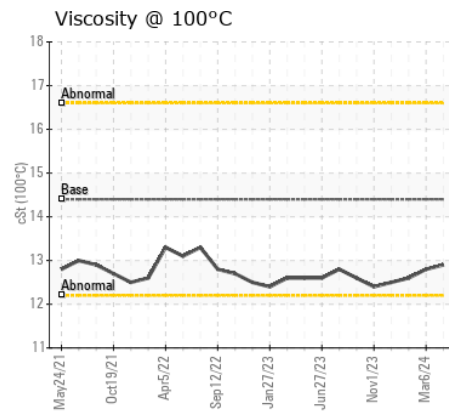
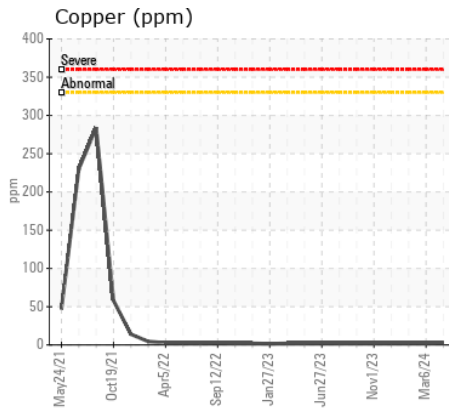
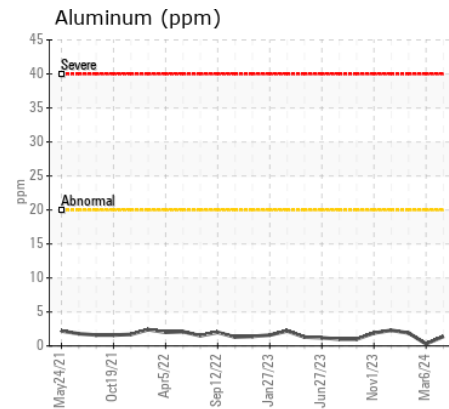
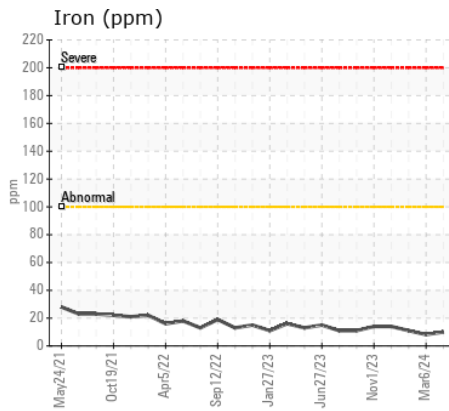
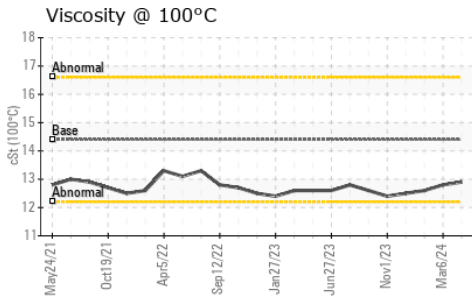
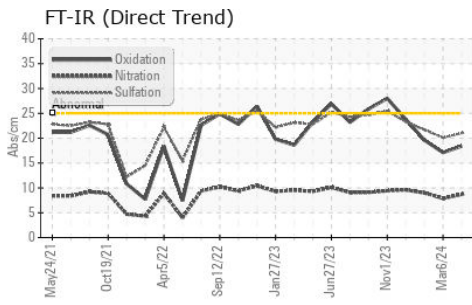
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	2	2
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.4	0.3	0.4
Nitration	Abs/cm	ASTM D7624*	>20	8.7	7.9	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.0	20.1	21.7
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	1	<1	1
Boron	ppm	ASTM D5185(m)	250	2	0	1
Barium	ppm	ASTM D5185(m)	10	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	100	60	59	58
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	450	986	982	961
Calcium	ppm	ASTM D5185(m)	3000	1061	1075	1150
Phosphorus	ppm	ASTM D5185(m)	1150	1015	1010	1041
Zinc	ppm	ASTM D5185(m)	1350	1215	1206	1210
Sulfur	ppm	ASTM D5185(m)	4250	2558	2597	2902
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.4	17.1	19.6
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	12.9	12.8	12.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0925672
Lab Number : 02631277
Unique Number : 5772430
Test Package : MOB 1

Received : 25 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 25 Apr 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.