MOB I WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1821
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

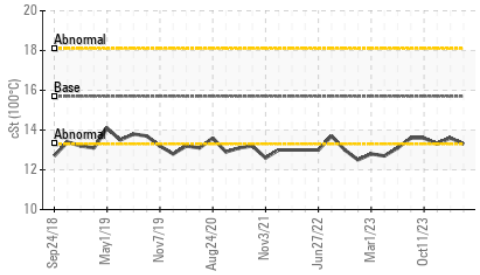
There is no indication of any contamination in the oil.

FLUID CONDITION

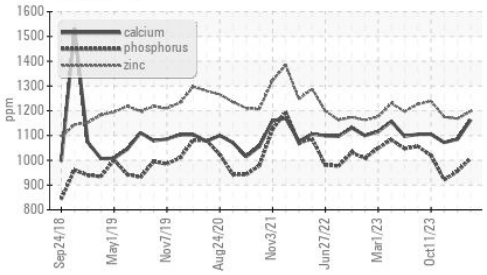
Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0905424**	WC0887384	WC0882992
Sample Date		Client Info		**14 Feb 2024**	08 Jan 2024	23 Nov 2023
Machine Age	hrs	Client Info		**19231**	18775	18261
Oil Age	hrs	Client Info		**457**	514	574
Filter Age	hrs	Client Info		**457**	0	574
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**N/A**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	**14**	16	17
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	**<1**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	**1**	1	1
Lead	ppm	ASTM D5185(m)	>40	**0**	0	<1
Copper	ppm	ASTM D5185(m)	>330	**3**	4	4
Tin	ppm	ASTM D5185(m)	>15	**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>25	**4**	4	4
Potassium	ppm	ASTM D5185(m)	>20	**<1**	0	0
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**	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	**10.5**	11.7	10.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	**23.2**	25.5	27.1
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**2**	1	2
Boron	ppm	ASTM D5185(m)	35	**2**	3	2
Barium	ppm	ASTM D5185(m)	0	**0**	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	**59**	60	60
Manganese	ppm	ASTM D5185(m)	0	**0**	0	0
Magnesium	ppm	ASTM D5185(m)	10	**956**	966	970
Calcium	ppm	ASTM D5185(m)	2340	**1163**	1085	1072
Phosphorus	ppm	ASTM D5185(m)	1110	**1008**	956	921
Zinc	ppm	ASTM D5185(m)	1210	**1198**	1168	1175
Sulfur	ppm	ASTM D5185(m)	3890	**2767**	2586	2406
Oxidation	Abs/.1mm	ASTM D7414*	>25	**22.3**	26.0	30.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	**13.3**	13.6	13.3

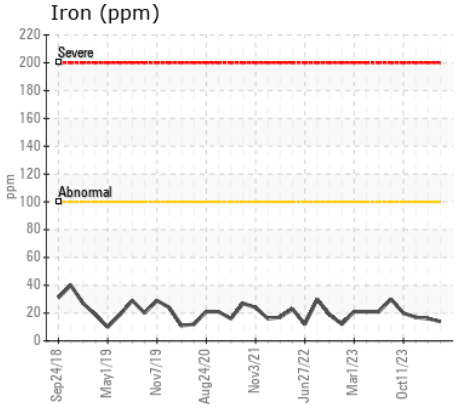
Viscosity @ 100°C



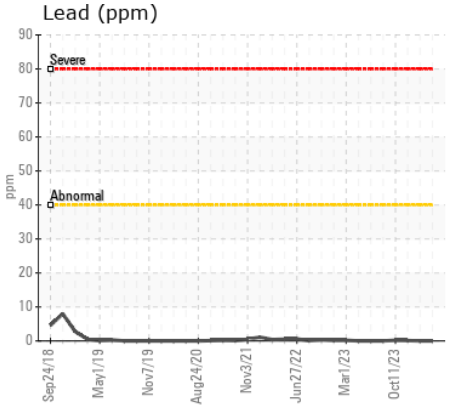
Additives



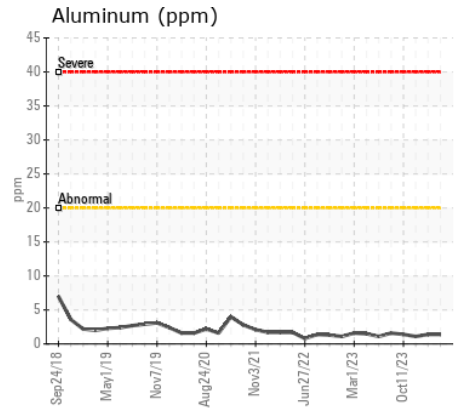
Iron (ppm)



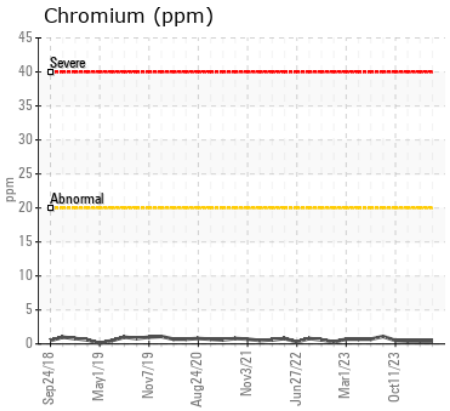
Lead (ppm)



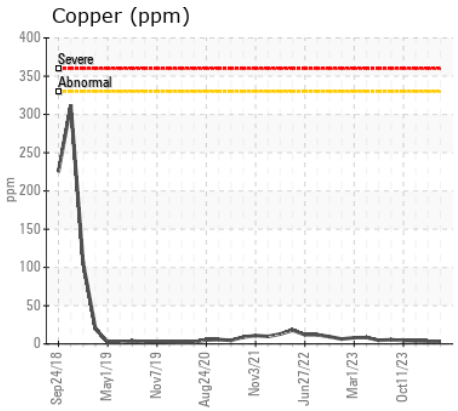
Aluminum (ppm)



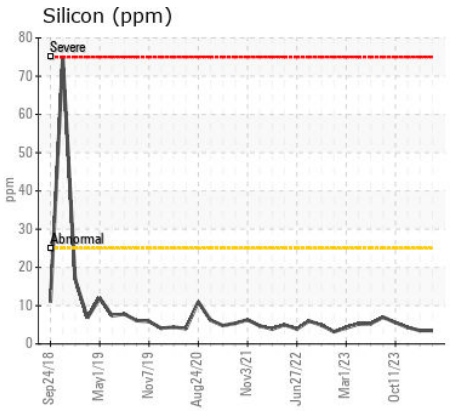
Chromium (ppm)



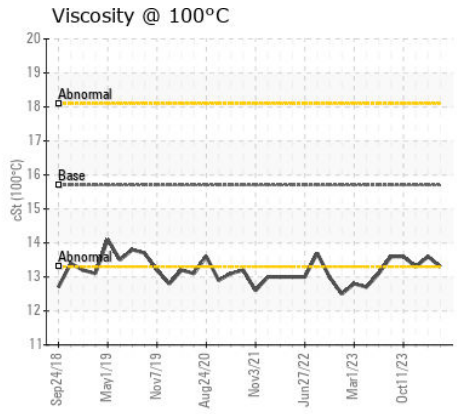
Copper (ppm)



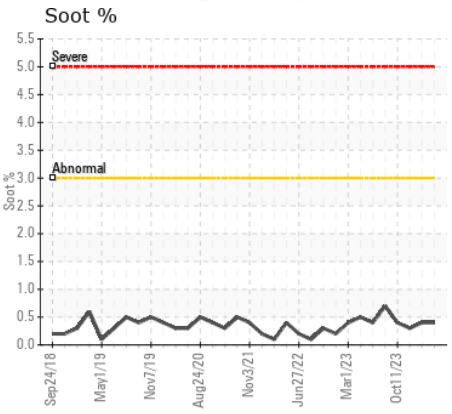
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0905424
Lab Number : 02618624
Unique Number : 5735734
Test Package : MOB 1

Received : 28 Feb 2024
Tested : 28 Feb 2024
Diagnosed : 28 Feb 2024 - Wes Davis

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.

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