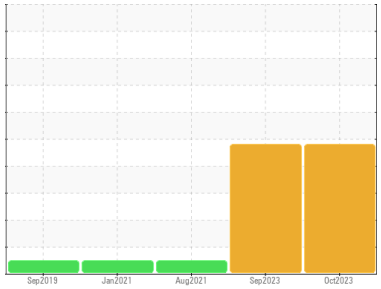
OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL

Area
[41819384]
Machine Id
R258
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
Test for glycol is positive. There is a light concentration of glycol present in the oil.

Fluid Condition
The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0853513**	WC0853399	WC0581040
Sample Date		Client Info		**19 Oct 2023**	30 Sep 2023	17 Aug 2021
Machine Age	kms	Client Info		**193349**	193471	109271
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Not Changd	N/A
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	**8**	27	37
Chromium	ppm	ASTM D5185(m)	>20	**0**	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	**<1**	0	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>3	**0**	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	**2**	5	3
Lead	ppm	ASTM D5185(m)	>40	**<1**	4	1
Copper	ppm	ASTM D5185(m)	>330	**<1**	4	5
Tin	ppm	ASTM D5185(m)	>15	**0**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	<1
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

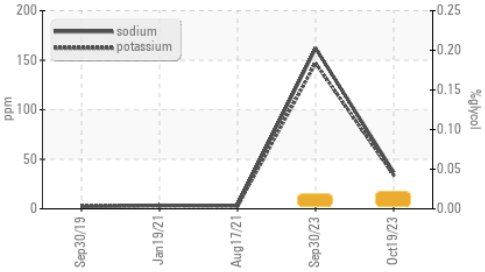
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	**63**	12	37
Barium	ppm	ASTM D5185(m)	10	**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	**5**	16	14
Manganese	ppm	ASTM D5185(m)		**0**	0	<1
Magnesium	ppm	ASTM D5185(m)	450	**719**	781	745
Calcium	ppm	ASTM D5185(m)	3000	**1313**	1382	1361
Phosphorus	ppm	ASTM D5185(m)	1150	**707**	752	768
Zinc	ppm	ASTM D5185(m)	1350	**759**	822	850
Sulfur	ppm	ASTM D5185(m)	4250	**2671**	2634	2583
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**4**	7	6
Sodium	ppm	ASTM D5185(m)		▲ **37**	▲ 162	3
Potassium	ppm	ASTM D5185(m)	>20	▲ **34**	▲ 147	3
Glycol	%	ASTM D7922*		▲ **0.022**	▲ 0.019	NEG

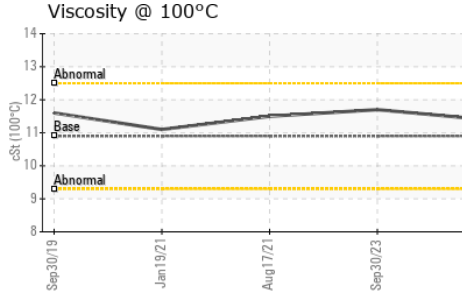
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.4**	1.4	1.2
Nitration	Abs/cm	ASTM D7624*	>20	**8.2**	12.5	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.2**	23.8	23.1

OIL ANALYSIS REPORT

Glycol Contamination



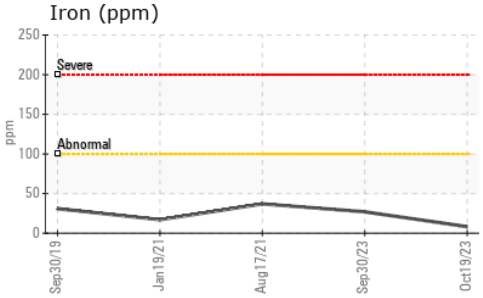
Viscosity @ 100°C



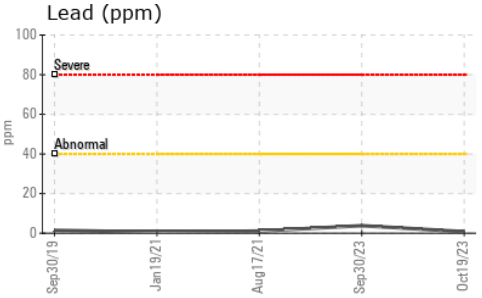
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**13.2**	17.2	17.5
VISUAL		**method**	**limit/base**	**current**	**history1**	**history2**
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG
FLUID PROPERTIES		**method**	**limit/base**	**current**	**history1**	**history2**
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**11.4**	11.7	11.5

GRAPHS

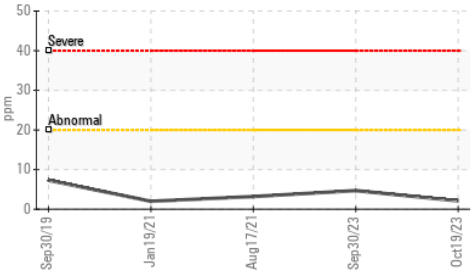
Iron (ppm)



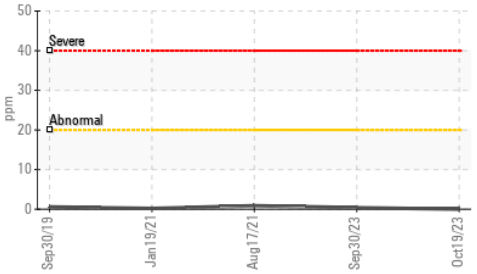
Lead (ppm)



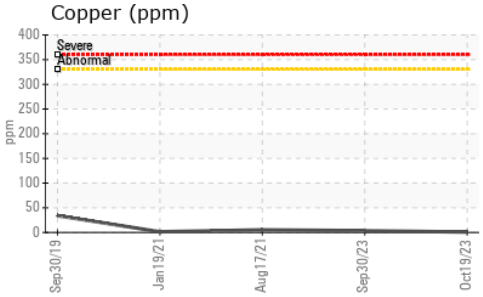
Aluminum (ppm)



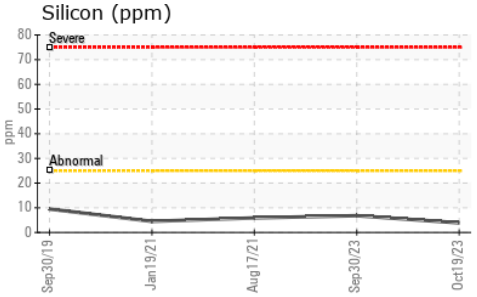
Chromium (ppm)



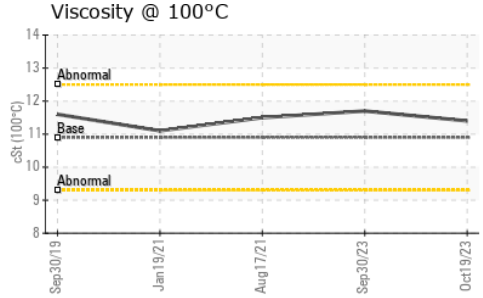
Copper (ppm)



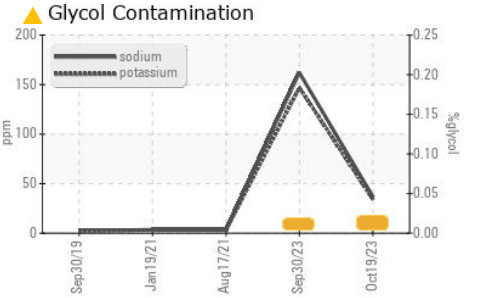
Silicon (ppm)



Viscosity @ 100°C



Glycol Contamination



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853513 **Recieved** : 09 Jan 2024
Lab Number : 02607432 **Diagnosed** : 09 Jan 2024
Unique Number : 5708518 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)

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.

Rush Truck Centres
7450 Torbram Rd.
Mississauga, ON
CA L4T 1G9
Contact: Serdar Okur
sokur@rushtruckcentres.ca
T: (905)671-7600
F: