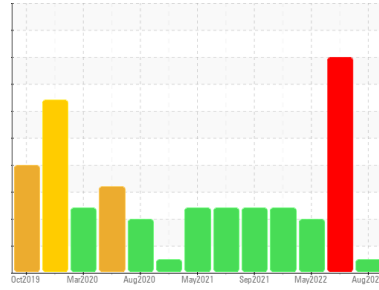




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
9397

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0796664	WC0737708	WC0553979
Sample Date	Client Info		03 Aug 2023	21 Oct 2022	15 May 2022
Machine Age	kms	Client Info	381303	0	326875
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	SEVERE	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	0.0	0.0

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	24	▲ 100	88
Chromium	ppm	ASTM D5185(m)	>20	1	7	6
Nickel	ppm	ASTM D5185(m)	>2	<1	2	1
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	9	◆ 53	▲ 25
Lead	ppm	ASTM D5185(m)	>40	1	12	9
Copper	ppm	ASTM D5185(m)	>330	2	8	4
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	<1	0
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	28	22	41
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	2	10	38
Manganese	ppm	ASTM D5185(m)		<1	2	1
Magnesium	ppm	ASTM D5185(m)	450	761	768	731
Calcium	ppm	ASTM D5185(m)	3000	1388	1517	1404
Phosphorus	ppm	ASTM D5185(m)	1150	755	781	653
Zinc	ppm	ASTM D5185(m)	1350	802	819	768
Sulfur	ppm	ASTM D5185(m)	4250	2606	2728	2634
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	4	10	17
Sodium	ppm	ASTM D5185(m)		10	▲ 264	▲ 701
Potassium	ppm	ASTM D5185(m)	>20	4	14	24

INFRA-RED

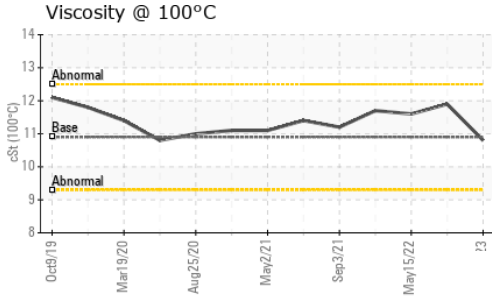
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0.3	2.2	1.6
Nitration	Abs/cm	ASTM D7624*	>20	11.0	14.3	14.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.3	31.3	30.6

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.7	23.0	22.1



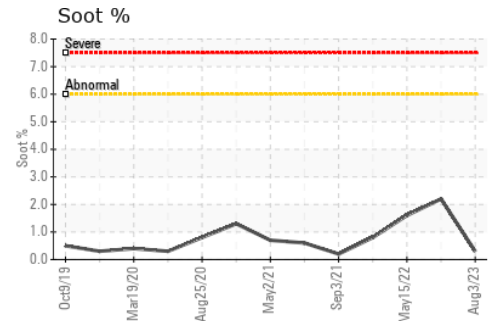
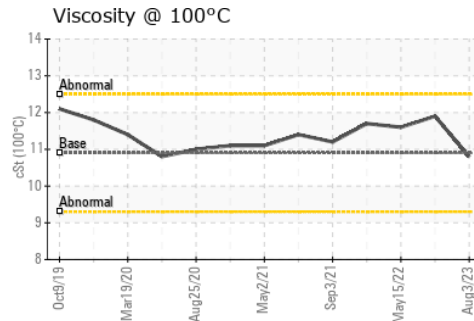
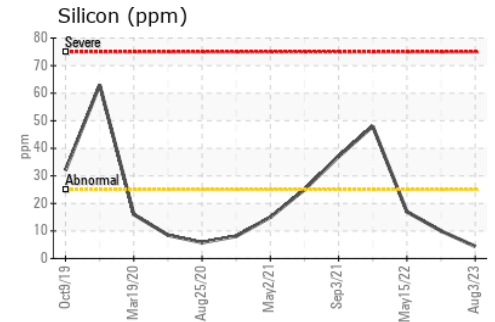
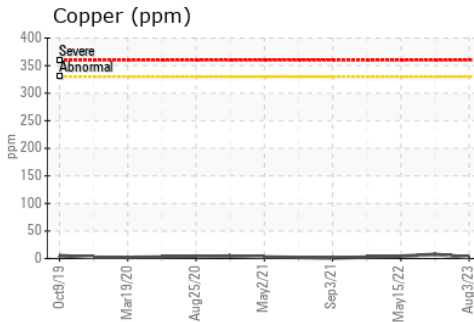
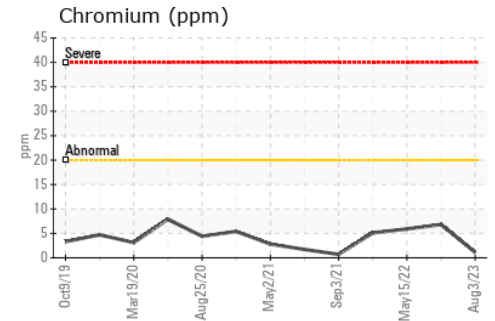
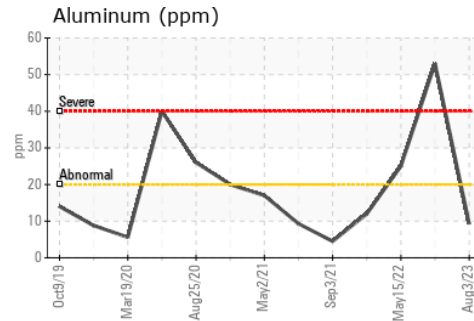
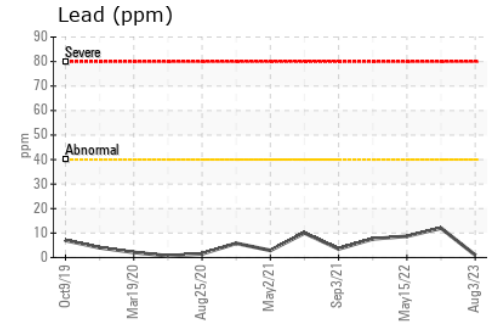
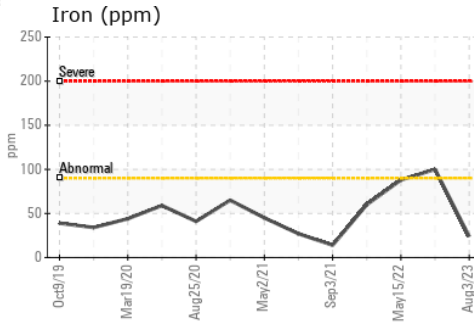
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	10.8	11.9

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0796664 **Received** : 06 Sep 2023
Lab Number : 02580576 **Diagnosed** : 06 Sep 2023
Unique Number : 5633636 **Diagnostician** : Wes Davis
Test Package : MOB 1

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 Mississauga, ON
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 Contact: Serdar Okur
 sokur@rushtruckcentres.ca
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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.