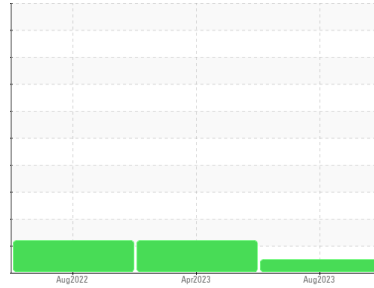




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
[41037152]

Machine Id
9724

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

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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			WC0853314	WC0796392	WC0702809
Sample Date	Client Info			26 Aug 2023	15 Apr 2023	28 Aug 2022
Machine Age	kms	Client Info		150391	123038	63236
Oil Age	kms	Client Info		0	0	0
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>3.0		<1.0	▲ 3	▲ 2.1
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	28	60	72
Chromium	ppm	ASTM D5185(m)	>20	2	4	4
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	23	51	138
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	2	6	9
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
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	35	43	26
Barium	ppm	ASTM D5185(m)	10	0	0	1
Molybdenum	ppm	ASTM D5185(m)	100	2	3	12
Manganese	ppm	ASTM D5185(m)		<1	2	3
Magnesium	ppm	ASTM D5185(m)	450	736	720	690
Calcium	ppm	ASTM D5185(m)	3000	1338	1415	1313
Phosphorus	ppm	ASTM D5185(m)	1150	706	669	679
Zinc	ppm	ASTM D5185(m)	1350	772	758	751
Sulfur	ppm	ASTM D5185(m)	4250	2499	2545	2302
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

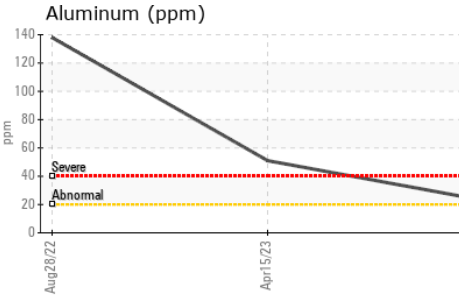
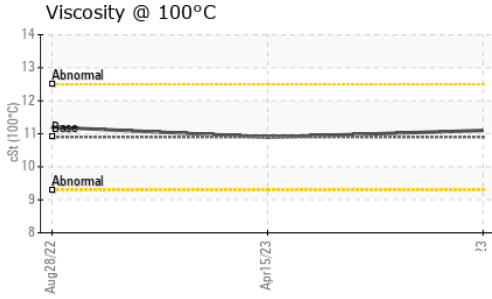
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	8	13
Sodium	ppm	ASTM D5185(m)		4	5	6
Potassium	ppm	ASTM D5185(m)	>20	46	88	322

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.3	0.8	0.5
Nitration	Abs/cm	ASTM D7624*	>20	10.3	11.1	11.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.0	23.9	25.5

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.2	18.2	21.2



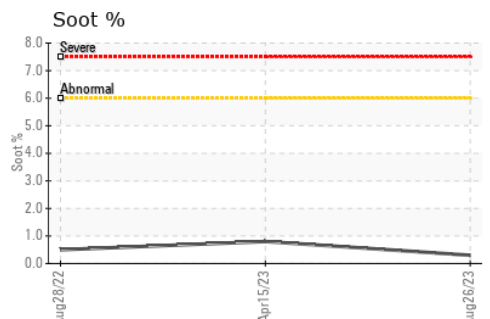
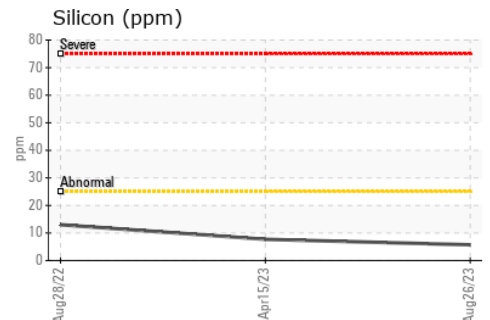
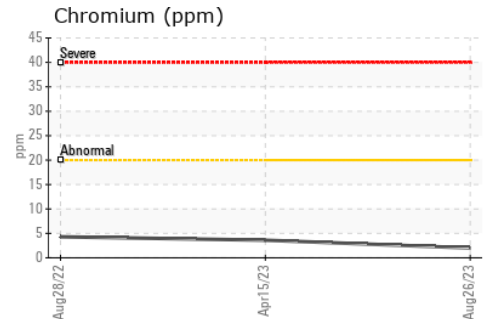
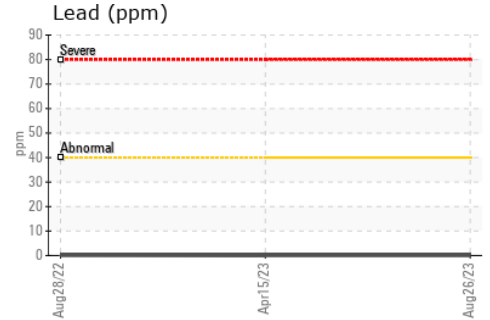
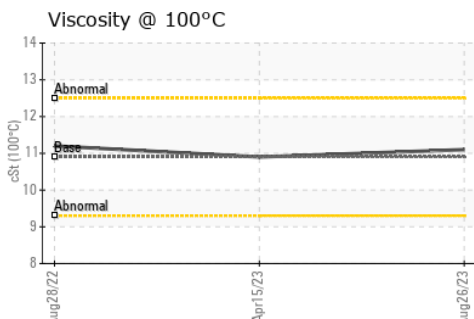
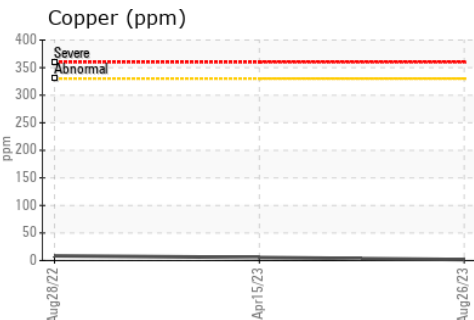
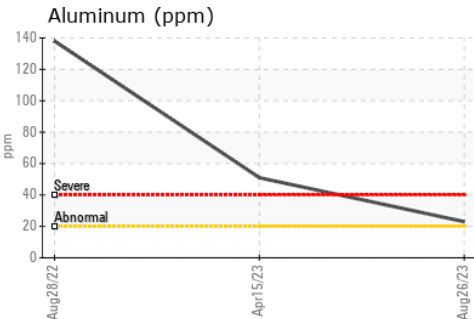
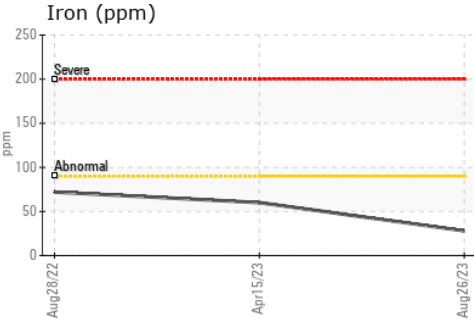
OIL ANALYSIS REPORT



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	11.1	▲ 10.9 ▲ 11.2

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853314 **Received** : 30 Aug 2023
Lab Number : 02579246 **Diagnosed** : 30 Aug 2023
Unique Number : 5632306 **Diagnostician** : Wes Davis
Test Package : MOB 1

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