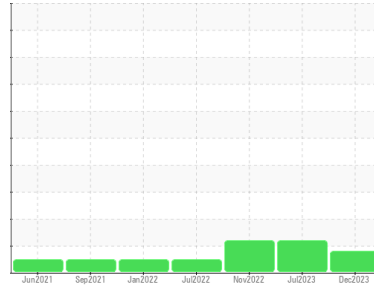




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Area
[42629263]

Machine Id
7383

Component
Diesel Engine

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

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. 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. Light fuel dilution occurring. No other contaminants were detected 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		WC0853137	WC0796241	WC0738024
Sample Date	Client Info		20 Dec 2023	12 Jul 2023	06 Nov 2022
Machine Age	kms	Client Info	282978	268567	249225
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		Not Chngd	Not Chngd	Changed
Sample Status			MARGINAL	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>165	96	33	47
Chromium	ppm	ASTM D5185(m)	>5	2	1	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	8	3	4
Lead	ppm	ASTM D5185(m)	>150	7	2	4
Copper	ppm	ASTM D5185(m)	>90	3	2	3
Tin	ppm	ASTM D5185(m)	>5	<1	<1	1
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	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	26	40	30
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	5	5	16
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	740	714	703
Calcium	ppm	ASTM D5185(m)	3000	1361	1292	1402
Phosphorus	ppm	ASTM D5185(m)	1150	695	697	753
Zinc	ppm	ASTM D5185(m)	1350	790	751	779
Sulfur	ppm	ASTM D5185(m)	4250	2611	2414	2436
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

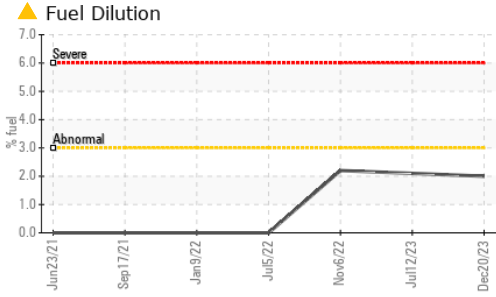
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>35	6	5	7
Sodium	ppm	ASTM D5185(m)		3	3	4
Potassium	ppm	ASTM D5185(m)	>20	12	6	6
Fuel	%	ASTM D7593*	>3.0	▲ 2	▲ 2.1	▲ 2.2

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>7.5	0.7	0.3	0.5
Nitration	Abs/cm	ASTM D7624*	>20	12.9	10.5	12.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.9	22.1	28.1



OIL ANALYSIS REPORT

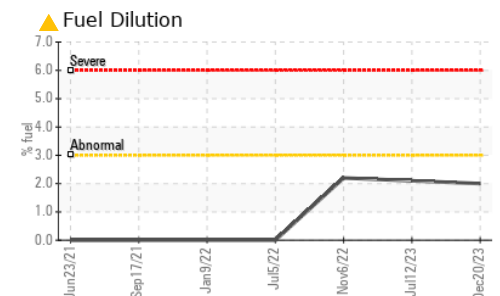
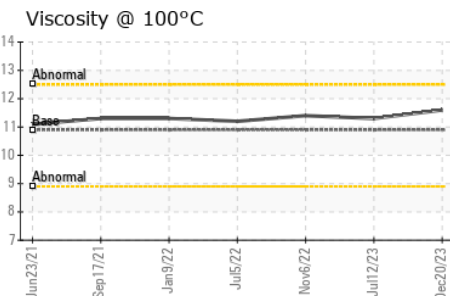
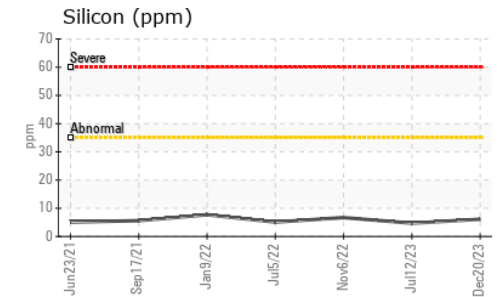
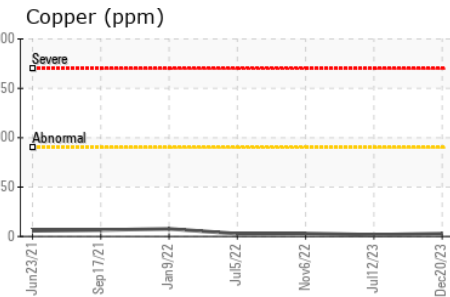
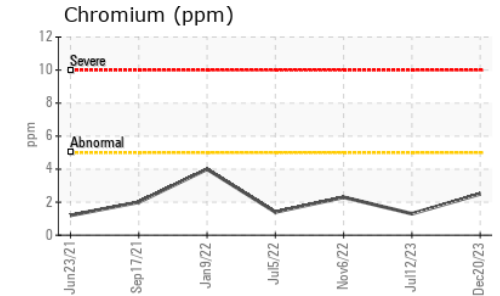
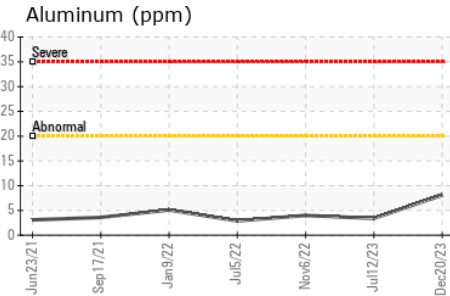
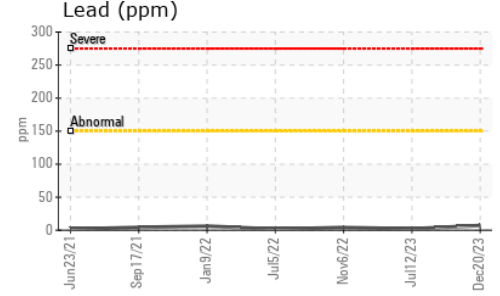
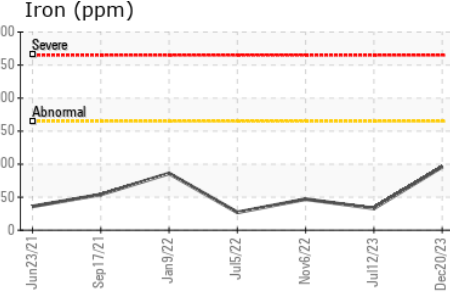
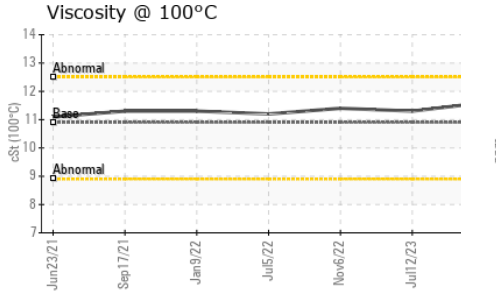


FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm ASTM D7414*	>25	25.3	17.7	26.0

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	11.6	▲ 11.3	▲ 11.4

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853137 **Received** : 03 Jan 2024
Lab Number : 02606210 **Diagnosed** : 04 Jan 2024
Unique Number : 5707296 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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 Mississauga, ON
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 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.