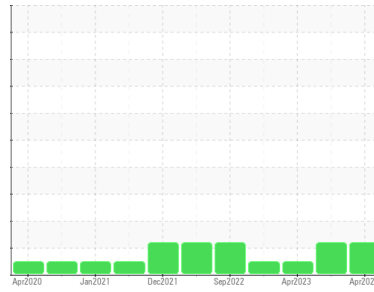




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id

9532

Component

Diesel Engine

Fluid

DISEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel 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		WC0924157	WC0702957	WC0796245
Sample Date	Client Info		10 Apr 2024	06 Aug 2023	27 Apr 2023
Machine Age	kms	Client Info	313415	284733	265916
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			ABNORMAL	ABNORMAL	NORMAL

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)	>90	20	14	9
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	4	5	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	3	2	2
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
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	40	58	73
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	2	2	3
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	715	759	697
Calcium	ppm	ASTM D5185(m)	3000	1290	1445	1346
Phosphorus	ppm	ASTM D5185(m)	1150	649	757	721
Zinc	ppm	ASTM D5185(m)	1350	740	811	744
Sulfur	ppm	ASTM D5185(m)	4250	2417	2508	2522
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

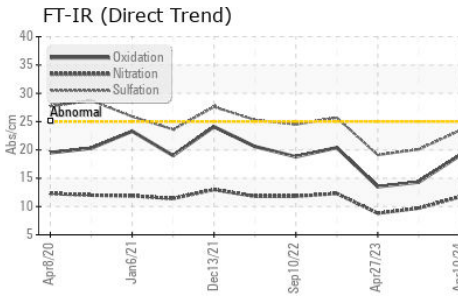
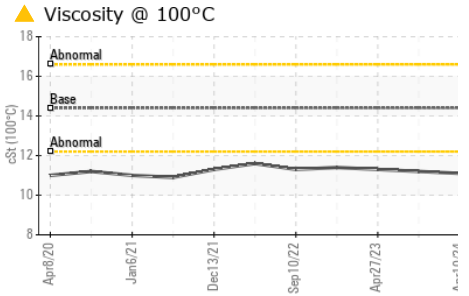
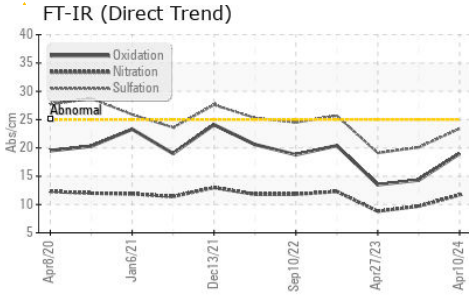
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	4	6	5
Sodium	ppm	ASTM D5185(m)	>158	3	2	2
Potassium	ppm	ASTM D5185(m)	>20	5	5	3
Fuel	%	ASTM D7593*	>3.0	▲ 3.2	▲ 2	<1.0

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0.5	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	11.7	9.7	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.4	20.1	19.1

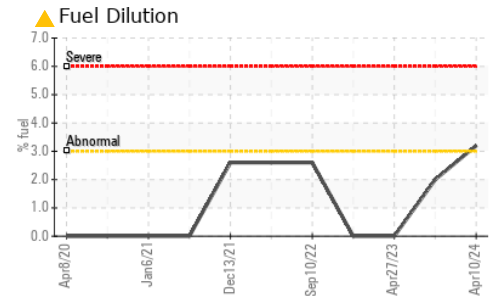
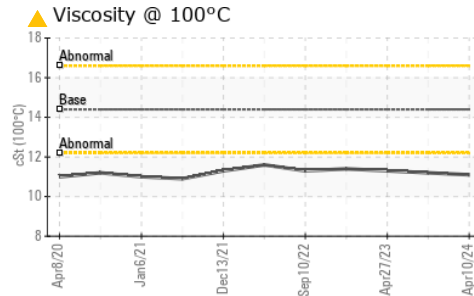
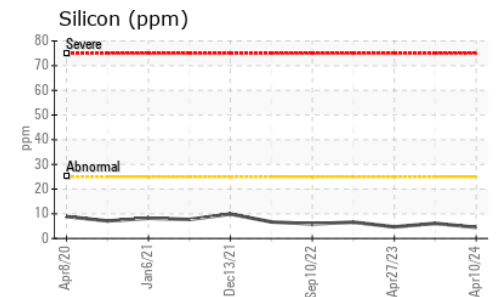
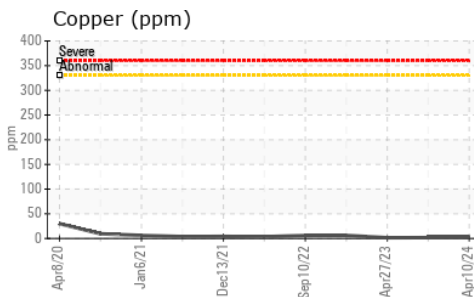
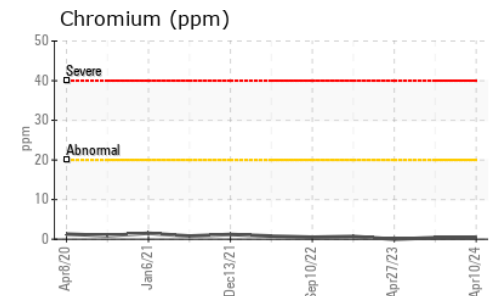
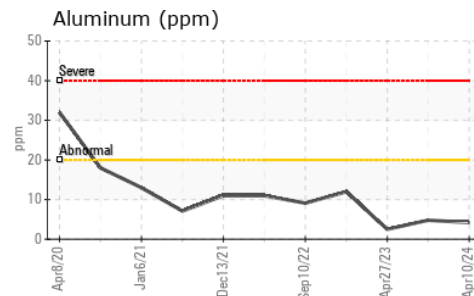
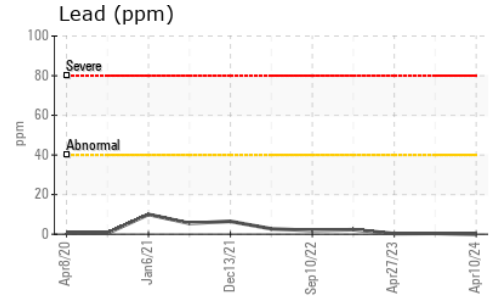
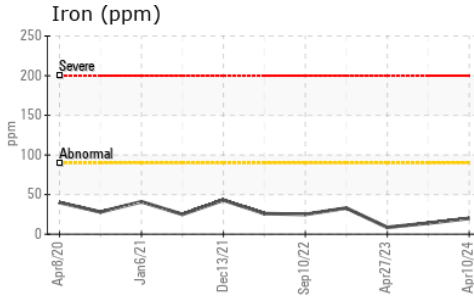


OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs.:1mm	ASTM D7414*	>25	19.0	14.3	13.5
VISUAL						
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERTIES						
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	▲ 11.1	▲ 11.2	11.3

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0924157 **Received** : 17 Apr 2024
Lab Number : **02629553** **Tested** : 19 Apr 2024
Unique Number : 5762685 **Diagnosed** : 19 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

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

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.