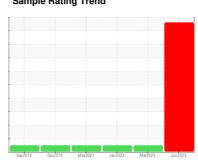


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **9553** Component

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- 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 moderate amount of fuel present in the oil. There is a high concentration of glycol present in the oil. There is a moderate concentration of water present in the oil. Tests confirm the presence of fuel in the oil.

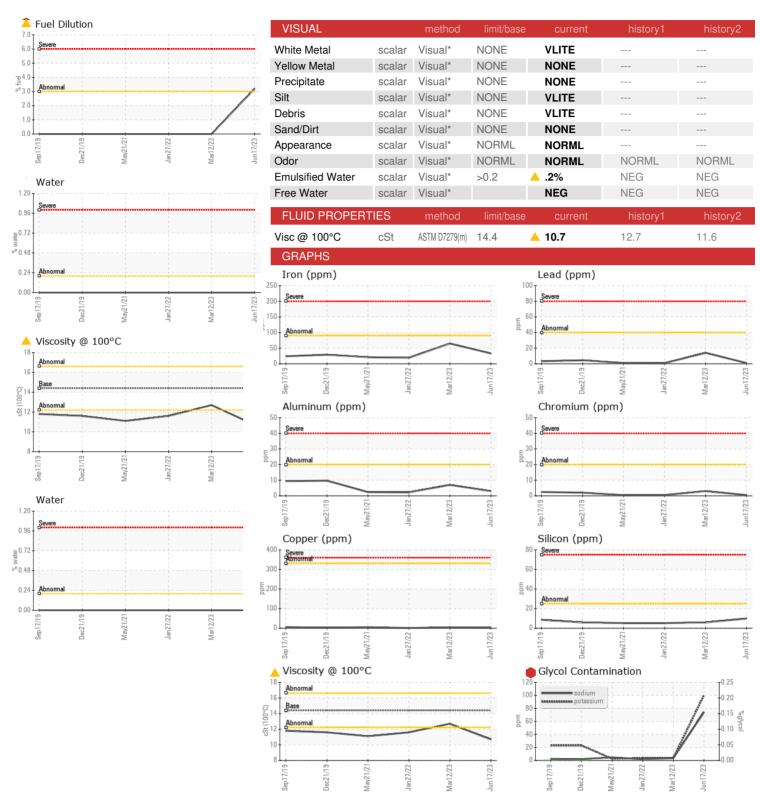
Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

		Sep2019	Dec2019 May2021	Jan 2022 Mar 2023	Jun2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0796319	WC0796365	WC0654586
Sample Date		Client Info		17 Jun 2023	12 Mar 2023	27 Jan 2022
Machine Age	kms	Client Info		624861	601032	0
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	33	65	19
Chromium	ppm	ASTM D5185(m)	>20	<1	3	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	7	2
Lead	ppm	ASTM D5185(m)	>40	<1	14	<1
Copper	ppm	ASTM D5185(m)	>330	2	5	1
Tin	ppm	ASTM D5185(m)	>15	0	1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	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	17	29	71
Barium	ppm	ASTM D5185(m)	10	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	100	27	17	12
Manganese	ppm	ASTM D5185(m)		<1	1	<1
Magnesium	ppm	ASTM D5185(m)	450	528	741	740
Calcium	ppm	ASTM D5185(m)	3000	989	1654	1269
Phosphorus	ppm	ASTM D5185(m)	1150	634	889	737
Zinc	ppm	ASTM D5185(m)	1350	738	937	808
Sulfur	ppm	ASTM D5185(m)	4250	2808	2583	2447
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	10	6	5
Sodium	ppm	ASTM D5185(m)	>158	<u>^</u> 74	3	2
Potassium	ppm	ASTM D5185(m)	>20	<u>▲</u> 100	4	4
Fuel	%	ASTM D7593*	>3.0	<u>▲</u> 3.2	<1.0	<1.0
Glycol	%	ASTM D7922*		>.70	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.1	0.8	0
Nitration	Abs/cm	ASTM D7624*	>20	8.0	13.0	4.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.3	31.7	13.6
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.0	27.0	6.9



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0796319

: 02565448

Received : 5594489

: 21 Jun 2023 Diagnosed : 22 Jun 2023 Diagnostician : Kevin Marson

Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KF, PercentFuel, Visual)

CA L4T 1G9 Contact: Serdar Okur sokur@rushtruckcentres.ca T: (905)671-7600

Rush Truck Centres

7450 Torbram Rd.

Mississauga, ON

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.