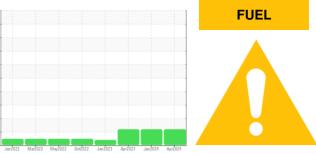


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

291963 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

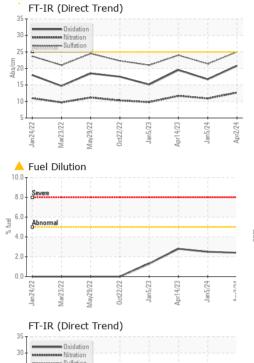
Fluid Condition

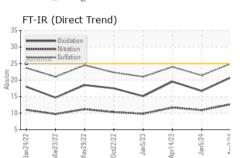
The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0924162	WC0853157	WC0796346
Sample Date		Client Info		02 Apr 2024	05 Jan 2024	14 Apr 2023
Machine Age	kms	Client Info		293127	283028	247750
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	32	15	27
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	- 1	0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)		12	6	17
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)		3	2	3
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	26	40	31
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	1	2	3
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)	450	731	693	730
Calcium	ppm	ASTM D5185(m)	3000	1311	1286	1410
Phosphorus	ppm	ASTM D5185(m)	1150	653	656	713
Zinc	ppm	ASTM D5185(m)	1350	750	742	763
Sulfur	ppm	ASTM D5185(m)	4250	2468	2618	2598
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	5	8
Sodium	ppm	ASTM D5185(m)	>158	3	2	3
Potassium	ppm	ASTM D5185(m)	>20	9	4	14
Fuel	%	ASTM D7593*	>5	<u> </u>	▲ 2.5	▲ 2.8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.8	0.4	0.7
Nitration	Abs/cm	ASTM D7624*	>20	12.7	10.9	11.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.0	21.4	24.0
		-				



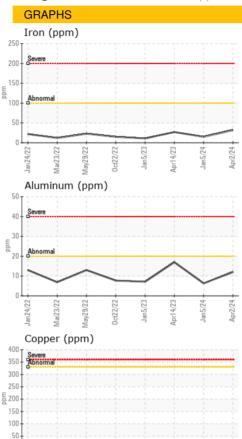
OIL ANALYSIS REPORT





FLUID DEGRADATION method limit/base history1 history2 current >25 20.8 16.7 Oxidation ASTM D7414* 19.5 Abs/.1mm VISUAL method limit/base current history1 history2 **Emulsified Water** Visual* >0.2 NEG NEG NEG scalar Free Water scalar Visual* NEG NEG NEG FLUID PROPERTIES method limit/base historv1 historv2 current Visc @ 100°C cSt 14.4 **11.2** 11.0 10.9 ASTM D7279(m)

Lead (ppm)



an5/24

nr14/73

C/Suc

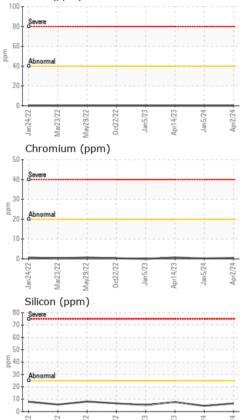
an5/23

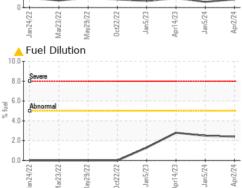
Apr14/23

nr2/74

Apr2/24

an5/74





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : WC0924162 Received : 17 Apr 2024 Lab Number : 02629557 Tested : 19 Apr 2024 ISO 17025:2017 Accredited Unique Number : 5762689 Diagnosed : 19 Apr 2024 - Wes Davis Laboratory Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel) 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.

Var73/77

Viscosity @ 100°C

Mav29/22

C

18

16

00°C)

-531

Jan24/22

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

Report Id: RUSMIS [WCAMIS] 02629557 (Generated: 04/19/2024 10:28:25) Rev: 1

Contact/Location: Serdar Okur - RUSMIS Page 2 of 2