

OIL ANALYSIS REPORT

Area [41221169] 9420

Component **Diesel Engine**

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

Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. The filter 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

There is a moderate concentration of dirt present in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

		Sep2019 Nov2	019 Marž020 Decž020 Octži	021 Jan2022 Oct2022 Feb2023 Apr2	023 Sep2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0853426	WC0796641	WC0737573
Sample Date		Client Info		03 Sep 2023	01 Apr 2023	05 Feb 2023
Machine Age	kms	Client Info		854351	736102	709650
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	1.1	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	10	11	30
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	2	3
Lead	ppm	ASTM D5185(m)	>40	<1	<1	1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<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	27	54	36
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	1	3	4
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	739	777	804
Calcium	ppm	ASTM D5185(m)	3000	1346	1454	1481
Phosphorus	ppm	ASTM D5185(m)	1150	738	785	822
Zinc	ppm	ASTM D5185(m)	1350	796	799	823
Sulfur	ppm	ASTM D5185(m)	4250	2483	2659	2714
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<u> </u>	4	6
Sodium	ppm	ASTM D5185(m)		3	3	4
Potassium	ppm	ASTM D5185(m)	>20	3	0	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	9.4	9.9	10.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	23.1	24.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.8	15.8	17.7



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Test Package : MOB 1

Unique Number

: WC0853426 : 02580597 : 5633657

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

Diagnostician

: 06 Sep 2023 : 06 Sep 2023 : Kevin Marson

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.

Rush Truck Centres 7450 Torbram Rd. Mississauga, ON CA L4T 1G9 Contact: Serdar Okur sokur@rushtruckcentres.ca

T: (905)671-7600