

OIL ANALYSIS REPORT

Area [7503] 7377

Component **Diesel Engine**

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

Sample Rating Trend



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring.

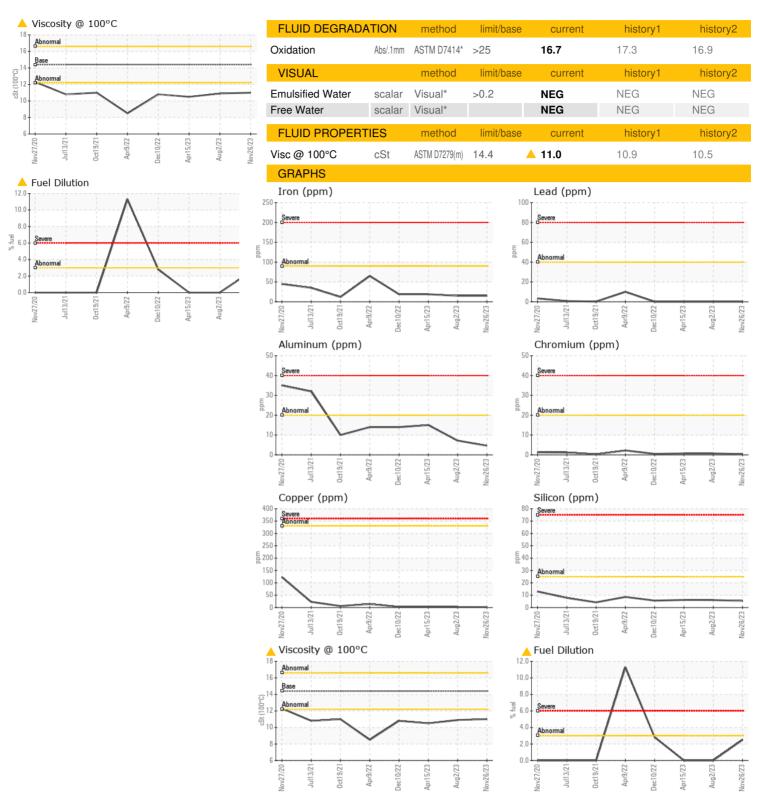
▲ Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

		Nov2020 -	Jul2021 Oct2021 Apr202	22 Dec2022 Apr2023 Aug202	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0853262	WC0796666	WC0796357
Sample Date		Client Info		26 Nov 2023	02 Aug 2023	15 Apr 2023
Machine Age	kms	Client Info		185619	171723	155957
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	V	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	15	15	19
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<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	5	7	15
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	2	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	45	49	49
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<1	1	2
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	697	709	693
Calcium	ppm	ASTM D5185(m)	3000	1279	1306	1330
Phosphorus	ppm	ASTM D5185(m)	1150	661	694	695
Zinc	ppm	ASTM D5185(m)	1350	734	751	734
Sulfur	ppm	ASTM D5185(m)	4250	2544	2490	2515
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	6	6
Sodium	ppm	ASTM D5185(m)	>158	2	3	3
Potassium	ppm	ASTM D5185(m)	>20	6	12	25
Fuel	%	ASTM D7593*	>3.0	<u>^</u> 2.5	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.4	0.4	0.4
Nitration	Abs/cm	ASTM D7624*	>20	9.9	10.1	10.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.6	21.5	20.8



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CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number Unique Number

: WC0853262 : 02607464

: 5708550

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Recieved : 09 Jan 2024 Diagnosed

: 10 Jan 2024 Diagnostician : Wes Davis

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.

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