

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend



## Machine Id 127063

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

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

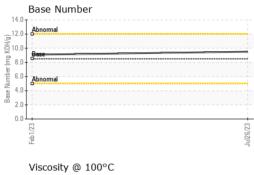
### Fluid Condition

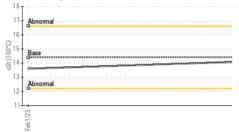
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

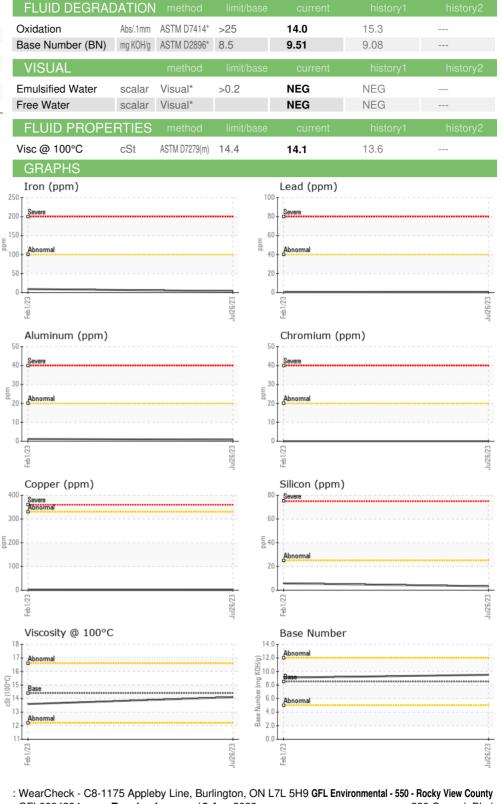
			Feb2023	Jul2023		
SAMPLE INFORM	<b>1ATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084294	GFL0063746	
Sample Date		Client Info		26 Jul 2023	01 Feb 2023	
Machine Age	kms	Client Info		274026	773	
Oil Age	kms	Client Info		0	652	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	4	9	
Chromium	ppm	ASTM D5185(m)	>20	0	0	
Nickel	ppm	ASTM D5185(m)	>4	0	0	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>3	0	0	
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	
Lead	ppm	ASTM D5185(m)	>40	<1	<1	
Copper	ppm	ASTM D5185(m)	>330	<1	<1	
Tin	ppm	ASTM D5185(m)	>15	0	<1	
Antimony	ppm	ASTM D5185(m)		<1	<1	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	5	5	
Barium	ppm	ASTM D5185(m)	10	0	0	
Molybdenum	ppm	ASTM D5185(m)	100	58	57	
Manganese	ppm	ASTM D5185(m)		<1	<1	
Magnesium	ppm	ASTM D5185(m)	450	956	951	
Calcium	ppm	ASTM D5185(m)	3000	1044	1123	
Phosphorus	ppm	ASTM D5185(m)	1150	1053	1121	
Zinc	ppm	ASTM D5185(m)	1350	1157	1192	
Sulfur	ppm	ASTM D5185(m)	4250	2651	2773	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANT	ſS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	6	
Sodium	ppm	ASTM D5185(m)	>158	1	1	
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	
Nitration	Abs/cm	ASTM D7624*	>20	5.7	7.5	
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8	19.6	



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Laboratory CALA Sample No. : GFL0084294 Received 220 Carmek Blvd : 15 Aug 2023 Lab Number : 02575835 : 16 Aug 2023 Rocky View County, AB Diagnosed ISO 17025:2017 Accredited Unique Number : Wes Davis CA T1X 1X1 : 5628895 Diagnostician Laboratory Test Package : MOB 2 Contact: GFL Calgary To discuss this sample report, contact Customer Service at 1-800-268-2131. calgarymaintenance@gflenv.com Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: Validity of results and interpretation are based on the sample and information as supplied. F: (403)369-6163

Contact/Location: GFL Calgary - GFL550 Page 2 of 2