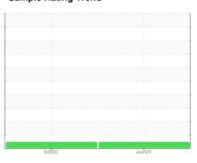


OIL ANALYSIS REPORT

Sample Rating Trend







831037 Component Diesel Engine Fluid RDL-3647 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Machine Id

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

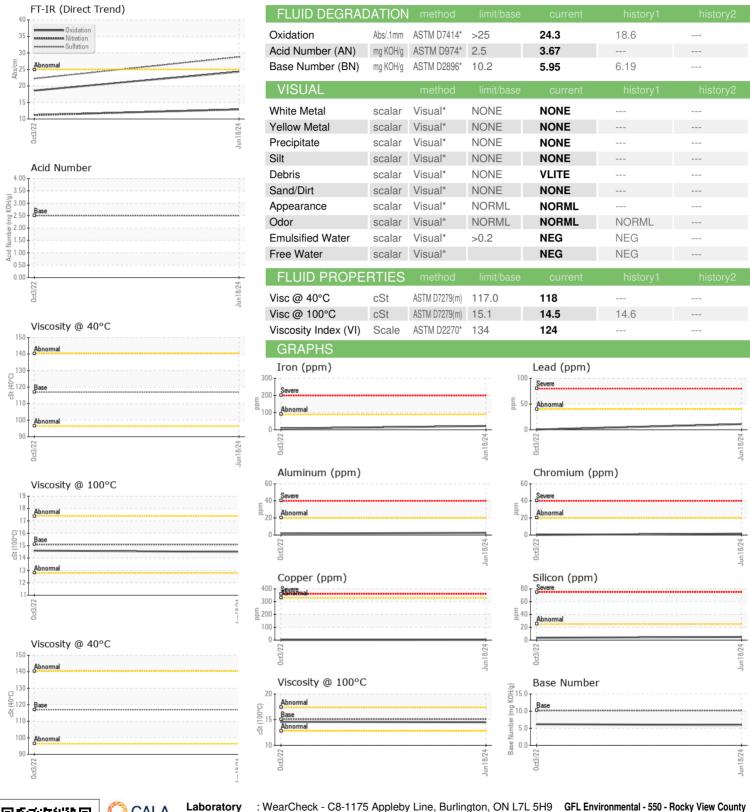
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

			0ct2022	Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112450	GFL0044545	
Sample Date		Client Info		18 Jun 2024	03 Oct 2022	
Machine Age	kms	Client Info		75133	0	
Oil Age	kms	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	22	8	
Chromium	ppm	ASTM D5185(m)	>20	2	<1	
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	
Titanium	ppm	ASTM D5185(m)	>2	0	<1	
Silver	ppm	ASTM D5185(m)	>2	0	0	
Aluminum	ppm	ASTM D5185(m)	>20	3	2	
Lead	ppm	ASTM D5185(m)	>40	11	<1	
Copper	ppm	ASTM D5185(m)	>330	2	1	
Tin	ppm	ASTM D5185(m)	>15	1	<1	
Antimony	ppm	ASTM D5185(m)		0	<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)	50	10	10	
Barium	ppm	ASTM D5185(m)	5	<1	0	
Molybdenum	ppm	ASTM D5185(m)	50	57	51	
Manganese	ppm	ASTM D5185(m)	0	1	<1	
Magnesium	ppm	ASTM D5185(m)	560	618	517	
Calcium	ppm	ASTM D5185(m)	1510	1735	1510	
Phosphorus	ppm	ASTM D5185(m)	780	786	678	
Zinc	ppm	ASTM D5185(m)	870	1002	849	
Sulfur	ppm	ASTM D5185(m)	2040	2015	1946	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	4	
Sodium	ppm	ASTM D5185(m)		9	2	
Potassium	ppm	ASTM D5185(m)	>20	<1	0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0	0	
Nitration	Abs/cm	ASTM D7624*	>20	12.9	11.2	
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.8	22.2	



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02643951

: GFL0112450 Unique Number : 5801490

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Received **Tested** Diagnosed

: 25 Jun 2024 : 26 Jun 2024 : 26 Jun 2024 - Wes Davis Test Package : MOB 2 (Additional Tests: KV40, TAN Auto, TAN Man, VI, Visual)

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1**

Contact: GFL Calgary calgarymaintenance@gflenv.com

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.

F: (403)369-6163

T: