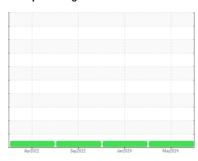


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 930020 Component Diesel Engine

PETRO CANADA DURON GEO LD 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.

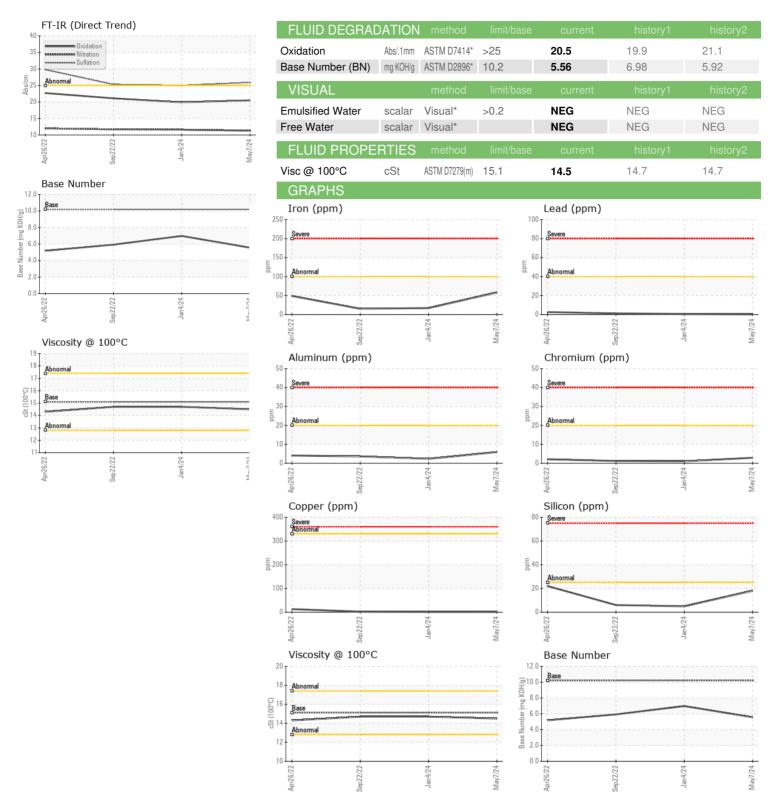
Fluid Condition

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

(GAL)		Apr202	2 Sep 2022	Jan 2024 M	ay2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117351	GFL0084300	GFL0060174
Sample Date		Client Info		07 May 2024	04 Jan 2024	22 Sep 2022
Machine Age	hrs	Client Info		6473	5499	2318
Oil Age	hrs	Client Info		967	1010	1087
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	58	17	15
Chromium	ppm	ASTM D5185(m)	>20	3	1	1
Nickel	ppm	ASTM D5185(m)	>4	2	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	6	2	4
Lead	ppm	ASTM D5185(m)	>40	<1	<1	1
Copper	ppm	ASTM D5185(m)	>330	1	1	2
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)	50	8	12	8
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	61	55	56
Manganese	ppm	ASTM D5185(m)	0	2	<1	1
Magnesium	ppm	ASTM D5185(m)	560	551	571	612
Calcium	ppm	ASTM D5185(m)	1510	1657	1672	1684
Phosphorus	ppm	ASTM D5185(m)	780	706	715	792
Zinc	ppm	ASTM D5185(m)	870	904	921	972
Sulfur	ppm	ASTM D5185(m)	2040	1936	2055	2064
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	18	5	6
Sodium	ppm	ASTM D5185(m)		12	7	7
Potassium	ppm	ASTM D5185(m)	>20	2	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.3	11.6	11.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.9	25.0	25.3



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02635985 Unique Number : 5785147 Test Package : MOB 2

: GFL0117351

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County

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

Received : 16 May 2024 **Tested** : 17 May 2024

Diagnosed : 17 May 2024 - Wes Davis

Rocky View County, AB **CA T1X 1X1** Contact: GFL Calgary calgarymaintenance@gflenv.com

220 Carmek Blvd

T: F: (403)369-6163

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.