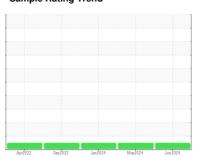


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



930020 Component Diesel Engine

Machine Id

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

GAL)		Apr2022	Sep2022	Jan 2024 May 2024	Jun2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117262	GFL0117351	GFL0084300
Sample Date		Client Info		11 Jun 2024	07 May 2024	04 Jan 2024
Machine Age	hrs	Client Info		6765	6473	5499
Oil Age	hrs	Client Info		299	967	1010
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>100	31	58	17
Chromium	ppm	ASTM D5185(m)	>20	2	3	1
Nickel	ppm	ASTM D5185(m)	>4	1	2	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	6	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	1	1
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)	50	14	8	12
Barium	ppm	ASTM D5185(m)	5	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	50	50	61	55
Manganese	ppm	ASTM D5185(m)	0	<1	2	<1
Magnesium	ppm	ASTM D5185(m)	560	521	551	571
Calcium	ppm	ASTM D5185(m)	1510	1522	1657	1672
Phosphorus	ppm	ASTM D5185(m)	780	706	706	715
Zinc	ppm	ASTM D5185(m)		860	904	921
Sulfur	ppm	ASTM D5185(m)	2040	1932	1936	2055
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	15	18	5
Sodium	ppm	ASTM D5185(m)		7	12	7
Potassium	ppm	ASTM D5185(m)	>20	<1	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	9.8	11.3	11.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	25.9	25.0



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0117262 Lab Number : 02642366 Unique Number : 5799905

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County Received : 17 Jun 2024

> **Tested** : 20 Jun 2024 Diagnosed

: 20 Jun 2024 - Wes Davis Test Package : MOB 2 (Additional Tests: KV40, PQ, TAN Auto, TAN Man, VI, Visual) Rocky View County, AB **CA T1X 1X1** Contact: GFL Calgary

220 Carmek Blvd

F: (403)369-6163

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. calgarymaintenance@gflenv.com T:

Validity of results and interpretation are based on the sample and information as supplied. Report Id: GFL550 [WCAMIS] 02642366 (Generated: 06/20/2024 17:59:19) Rev: 1

Submitted By: GFL Calgary