

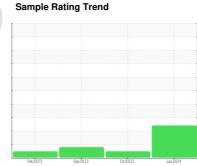
OIL ANALYSIS REPORT



(P872950) 9158 Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)





DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Piston, ring and cylinder wear is indicated.

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 acceptable for the time in service.

GEO LD 15W40 (-	GAL)	Feb 202	3 Sep 2023	0ct2023 J:	an 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101781	GFL0090112	GFL0074972
Sample Date		Client Info		29 Jan 2024	03 Oct 2023	21 Sep 2023
Machine Age	hrs	Client Info		17003	16492	16463
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	<u> </u>	9	33
Chromium	ppm	ASTM D5185m	>4	<u></u> 4	<1	<u>^</u> 7
Nickel	ppm	ASTM D5185m	>2	2	<1	1
Гitanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	△ 38	5	9
_ead	ppm	ASTM D5185m	>30	<1	0	<1
Copper	ppm	ASTM D5185m	>35	4	<1	30
Γin	ppm	ASTM D5185m	>4	<1	0	<1
/anadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	12	40	15
Barium	ppm	ASTM D5185m	5	<1	0	0
Molybdenum	ppm	ASTM D5185m	50	54	45	51
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	560	531	577	536
Calcium	ppm	ASTM D5185m	1510	1455	1503	1592
Phosphorus	ppm	ASTM D5185m	780	751	744	761
Zinc	ppm	ASTM D5185m	870	909	934	933
Sulfur	ppm	ASTM D5185m	2040	2285	2437	2393
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	12	7	16
Sodium	ppm	ASTM D5185m		6	2	8
Potassium	ppm	ASTM D5185m	>20	2	0	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	12.0	6.4	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.1	19.3
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	16.0	17.0
Base Number (BN)	mg KOH/g	ASTM D2896		6.0	8.7	6.2
-acc (14111001 (D14)	mg nong	0 1111 DL000		0.0	0.7	U.L



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

: GFL0101781 Lab Number : 06076662

Unique Number: 10858753 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Feb 2024

Tested : 06 Feb 2024 : 07 Feb 2024 - Jonathan Hester Diagnosed

GFL Environmental - 030 - Conway Myrtle Beach

3010 HWY 378 Conway, SC US 29527

Contact: ARCILIO RUEZ aruiz@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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