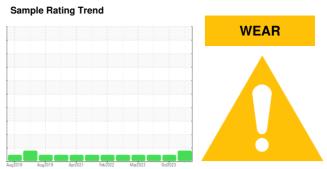


OIL ANALYSIS REPORT





Area (\$\$\,\ 25082) 9176 **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.

Exhaust valve wear is indicated.

Contamination

There is no indication of any contamination in the oil.

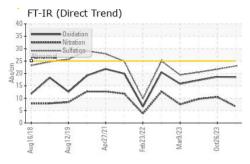
Fluid Condition

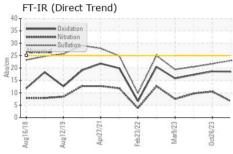
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

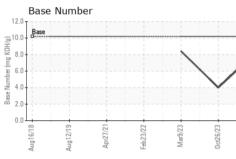
GEO LD 15W40 (-	GAL)	Aug2018	Aug2019 Apr2021	Feb 2022 Mar 2023 0	ct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114445	GFL0093312	GFL0065152
Sample Date		Client Info		28 Mar 2024	26 Oct 2023	12 May 2023
Machine Age	hrs	Client Info		17135	16525	15358
Oil Age	hrs	Client Info		0	16525	15358
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
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	23	25	27
Chromium	ppm	ASTM D5185m	>4	0	2	2
Nickel	ppm	ASTM D5185m	>2	<u>^</u> 24	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		8	17	21
Lead	ppm	ASTM D5185m	>30	1	1	<1
Copper	ppm	ASTM D5185m	>35	7	6	3
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	66	5	13
Barium	ppm	ASTM D5185m	5	21	0	0
Molybdenum	ppm	ASTM D5185m	50	103	48	52
Manganese	ppm	ASTM D5185m	0	4	<1	<1
Magnesium	ppm	ASTM D5185m	560	634	527	603
Calcium	ppm	ASTM D5185m	1510	1439	1407	1629
Phosphorus	ppm	ASTM D5185m	780	697	665	786
Zinc	ppm	ASTM D5185m	870	1177	850	1028
Sulfur	ppm	ASTM D5185m	2040	3271	2039	3029
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	22	5	6
Sodium	ppm	ASTM D5185m		5	11	5
Potassium	ppm	ASTM D5185m	>20	6	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	6.6	10.5	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	21.7	20.5
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	18.6	17.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.1	4.0	6.2

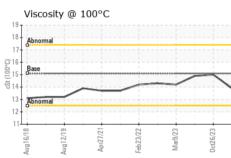


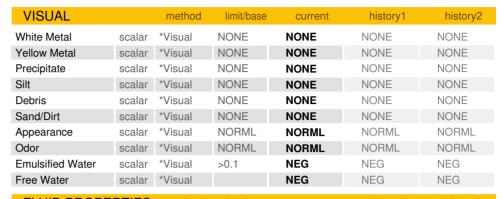
OIL ANALYSIS REPORT





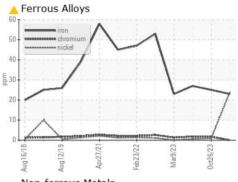


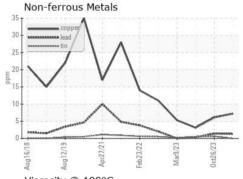


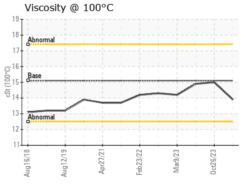


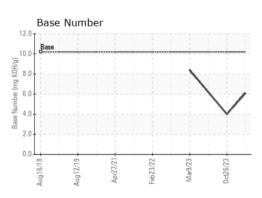
FLUID PROPI	ERITES	method	limit/base	current	history1	history
Visc @ 100°C	cSt	ASTM D445	15.1	13.9	15.0	14.9

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06135504 Unique Number : 10954969 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0114445 Received : 01 Apr 2024

Tested : 02 Apr 2024 Diagnosed

GFL Environmental - 865 - East Mount Hauling

7213 East Mount Houston Road Houston, TX US 77050

: 04 Apr 2024 - Sean Felton Contact: Saul Castillo saul.castillo@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)

Report Id: GFL865 [WUSCAR] 06135504 (Generated: 04/04/2024 21:53:35) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

T:

F: