

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 9176 Component **Natural Gas Engine** Fluid

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

DIAGNOSIS

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

All component wear rates are normal.

oil is suitable for further service.

Recommendation

Contamination

Fluid Condition

Wear

oil.

GEO LD 15W40	(GAL)	Aug2018	Aug2019 Apr2021	Feb2022 Mar2023	0ct2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093312	GFL0065152	GFL007419
Sample Date		Client Info		26 Oct 2023	12 May 2023	09 Mar 2023
Machine Age	hrs	Client Info		16525	15358	14789
Oil Age	hrs	Client Info		16525	15358	14789
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	25	27	23
Chromium	ppm	ASTM D5185m	>5	2	2	1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m	>5	0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>25	17	21	6
Lead	ppm	ASTM D5185m	>40	1	<1	0
Copper	ppm	ASTM D5185m	>150	6	3	5
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Beryllium	ppm	ASTM D5185m				
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	5	13	34
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	48	52	46
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	560	527	603	537
Calcium	ppm	ASTM D5185m	1510	1407	1629	1521
Phosphorus	ppm	ASTM D5185m	780	665	786	735
Zinc	ppm	ASTM D5185m	870	850	1028	923
Sulfur	ppm	ASTM D5185m	2040	2039	3029	2522
Lithium	ppm	ASTM D5185m				
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	6	6
Sodium	ppm	ASTM D5185m		11	5	6
Potassium	ppm	ASTM D5185m	>20	2	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.5	9.7	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	20.5	19.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	17.3	15.8
Deee Number (DN)	m = 1/011/=		10.0	4.0	0.0	0.4

Base Number (BN) mg KOH/g ASTM D2896 10.2

6.2 8.4

4.0



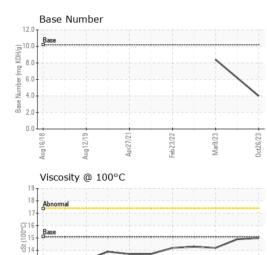
13 Abnorma

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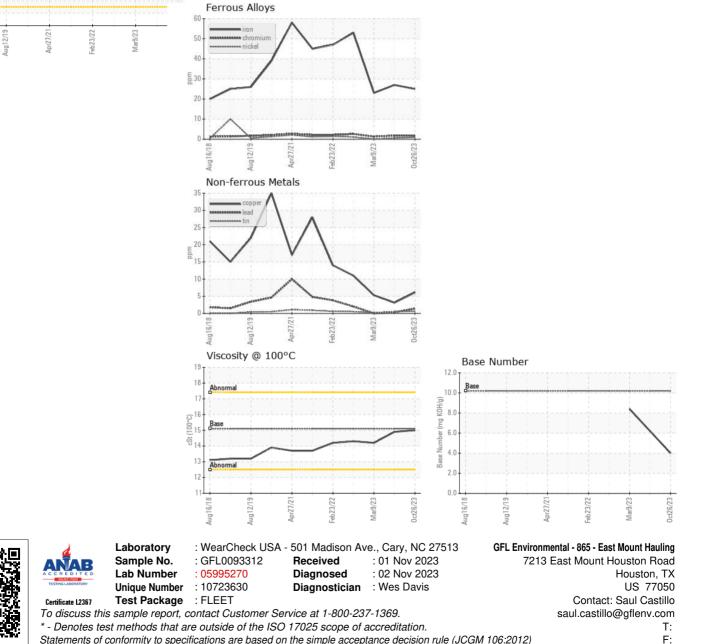
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Aug16/18

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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	15.0	14.9	14.2
GRAPHS						



Submitted By: TECHNICIAN ACCOUNT