

OIL ANALYSIS REPORT

(YA135985) 3711C

Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (32 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high.

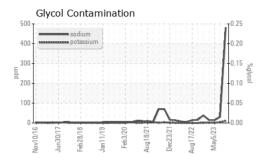
Fluid Condition

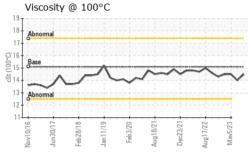
The BN result indicates that there is suitable alkalinity remaining in the oil.

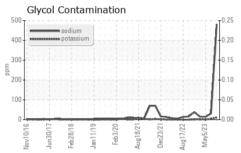
32 GAL)		v2016 Jun201	7 Feb 2018 Jan 2019 Feb	2020 Aug2021 Dec2021 Aug202	2 May2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098513	GFL0087784	GFL0073784
Sample Date		Client Info		15 Jan 2024	06 Aug 2023	05 May 2023
Machine Age	hrs	Client Info		16733	0	15664
Oil Age	hrs	Client Info		1630	0	561
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	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	35	4 0	17
Chromium	ppm	ASTM D5185m	>4	6	<u>^</u> 6	3
lickel	ppm	ASTM D5185m	>2	<1	1	<1
- Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>9	3	4	<1
_ead	ppm	ASTM D5185m	>30	3	12	2
Copper	ppm	ASTM D5185m	>35	32	29	18
- in	ppm	ASTM D5185m	>4	<1	1	<1
/anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	6	<1	7
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	80	68	53
Manganese	ppm	ASTM D5185m	0	1	2	1
Magnesium	ppm	ASTM D5185m	560	574	622	554
Calcium	ppm	ASTM D5185m	1510	1735	1918	1608
Phosphorus	ppm	ASTM D5185m	780	740	850	673
Zinc	ppm	ASTM D5185m	870	1007	1093	964
Sulfur	ppm	ASTM D5185m	2040	2496	2618	2889
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	8	9	8
Sodium	ppm	ASTM D5185m		482	31	14
Potassium	ppm	ASTM D5185m	>20	10	4	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	12.5	12.6	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.4	27.1	21.2
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	22.5	17.5
Base Number (BN)	mg KOH/g		10.2	5.1	3.7	2.9
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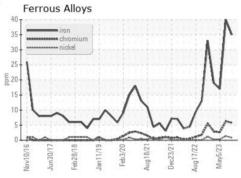


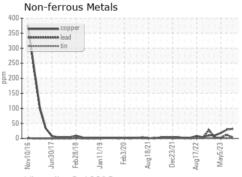


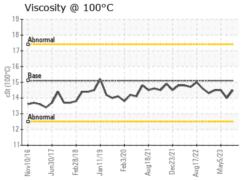
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

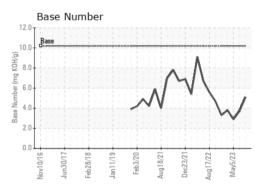
FLUID FROF	LHILS	method	IIIIII/Dase	Current	HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.0	14.5

GRAPHS













Laboratory Sample No. Lab Number Unique Number

: 06062346

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0098513

Recieved Diagnosed

: 17 Jan 2024 : 18 Jan 2024 : Jonathan Hester Diagnostician

: 10833728 Test Package : FLEET (Additional Tests: Glycol)

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.

GFL Environmental - 006 - Wilmington

3618 US Highway 421 N Wilmington, NC US 28401 Contact: Eric Wood

eric.wood@gflenv.com T: (717)723-1956

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

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