

OIL ANALYSIS REPORT

(YA122719) 3635C

Component **Natural Gas Engine**

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





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

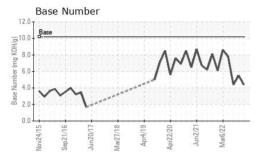
Fluid Condition

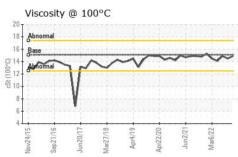
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

(GAL) v2015 Sup2016 Jun2017 Mar2018 Apr2019 Apr2020 Jun2021 Mar2022						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109692	GFL0092734	GFL0072420
Sample Date		Client Info		18 Mar 2024	13 Dec 2023	07 Jun 2023
Machine Age	hrs	Client Info		19875	18750	18750
Oil Age	hrs	Client Info		611	711	440
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	ATTENTION	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
Iron	ppm	ASTM D5185m	>50	21	20	10
Chromium	ppm	ASTM D5185m	>4	2	3	1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	2	<1
Lead	ppm	ASTM D5185m	>30	1	0	0
Copper	ppm	ASTM D5185m	>35	12	25	△ 97
Tin	ppm	ASTM D5185m	>4	<1	<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	10	12	10
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	62	59	55
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	643	616	733
Calcium	ppm	ASTM D5185m	1510	1552	1466	1401
Phosphorus	ppm	ASTM D5185m	780	780	706	700
Zinc	ppm	ASTM D5185m	870	1051	966	1010
Sulfur	ppm	ASTM D5185m	2040	2447	2300	2792
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	11	18	5
Sodium	ppm	ASTM D5185m		44	93	28
Potassium	ppm	ASTM D5185m	>20	17	34	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.9	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.7	19.5	22.3
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Oxidation						
	Abs/.1mm	*ASTM D7414	>25	21.5	16.7	21.1
Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896		21.5 4.4	16.7 5.5	21.1 4.4



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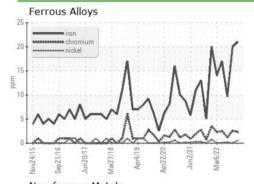


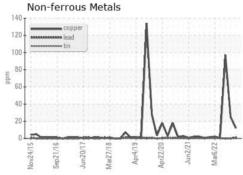


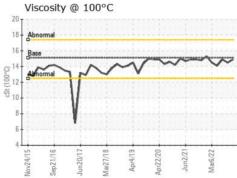
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

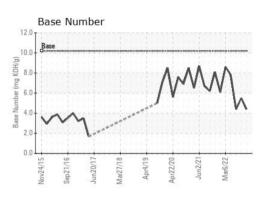
FLUID PROPE	KIIES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.9	14.5	14.9

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06126158 Unique Number : 10940309 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109692 Received : 22 Mar 2024

Tested Diagnosed

: 22 Mar 2024 : 26 Mar 2024 - Don Baldridge

GFL Environmental - 005 - Wilson/Tri-East(CNG)

2810 Contentnea Road S Wilson, NC

US 27893-8501 Contact: SPENCER LIGGON

spencer.liggon@gflenv.com

T: (800)207-6618

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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