

OIL ANALYSIS REPORT

(YA146542) Machine Id 2723C

Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (40 GAL)

lan2019 Maz020 Maz021 Nov2021 Feb2022 Aug2022 Jan2023 Aug2023

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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.

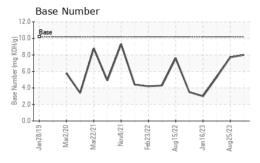
(40 GAL)		Jan2019 Mar.	2020 Mar2021 Nov2021	Feb2022 Aug2022 Jan2023	Aug2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109507	GFL0058853	GFL0058809
Sample Date		Client Info		15 Feb 2024	25 Aug 2023	05 May 2023
Machine Age	hrs	Client Info		11674	11674	3454
Oil Age	hrs	Client Info		1200	600	2111
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	2	4	5
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	1	0
Lead	ppm	ASTM D5185m	>30	<1	0	3
Copper	ppm	ASTM D5185m	>35	<1	<1	1
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	38	27	13
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	49	48	53
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	573	537	606
Calcium	ppm	ASTM D5185m	1510	1490	1436	1503
Phosphorus	ppm	ASTM D5185m	780	771	735	755
Zinc	ppm	ASTM D5185m	870	953	893	992
Sulfur	ppm	ASTM D5185m	2040	2460	2515	2944
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	4	4
Sodium	ppm	ASTM D5185m		3	2	6
Potassium	ppm	ASTM D5185m	>20	3	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	6.5	7.8	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	19.8	22.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	16.6	18.7

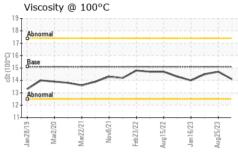
8.0

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



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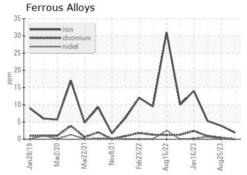


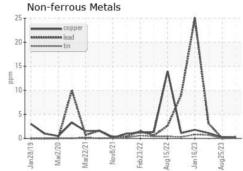


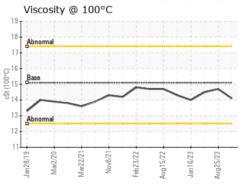
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
Sand/Dirt	scalar	*Visual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

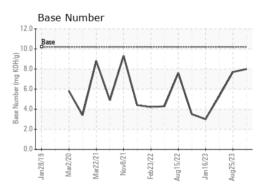
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.1	14.7	14.5

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06095365 Unique Number : 10888218 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109507

Received **Tested**

: 21 Feb 2024 : 22 Feb 2024 Diagnosed : 22 Feb 2024 - Wes Davis

GFL Environmental - 019 - Greenville/TriEast 415 Staton Road

Greenville, NC US 27834

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)

Report Id: GFL019 [WUSCAR] 06095365 (Generated: 02/23/2024 08:27:04) Rev: 1

Submitted By: SAM SETZER