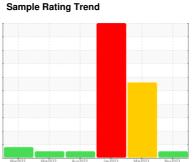


OIL ANALYSIS REPORT



NORMAL



946021-260304

Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

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.

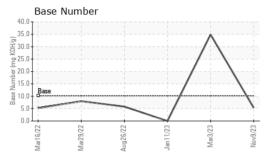
GAL)		Mar2022	Mar2022 Aug2022	2 Jan 2023 Mar 2023	Nov2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084625	GFL0073672	GFL0068447
Sample Date		Client Info		09 Nov 2023	03 Mar 2023	11 Jan 2023
Machine Age	hrs	Client Info		89258	132695	132692
Oil Age	hrs	Client Info		20000	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	SEVERE	SEVERE
CONTAMINA	TION	method	limit/base	current	history1	history2
Glycol		WC Method				0.20
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	20	31	30
Chromium	ppm	ASTM D5185m	>4	1	2	2
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Γitanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>9	2	6	7
_ead	ppm	ASTM D5185m	>30	<1	3	3
Copper	ppm	ASTM D5185m	>35	0	14	1 6
Γin	ppm	ASTM D5185m	>4	<1	4	<u>4</u>
/anadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	16	70	17
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	61	57	63
Manganese	ppm	ASTM D5185m	0	<1	2	1
Magnesium	ppm	ASTM D5185m	560	709	558	560
Calcium	ppm	ASTM D5185m	1510	1894	1548	1596
Phosphorus	ppm	ASTM D5185m	780	929	797	848
Zinc	ppm	ASTM D5185m	870	1183	984	1001
Sulfur	ppm	ASTM D5185m	2040	3067	2848	3172
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	11	15	14
Sodium	ppm	ASTM D5185m		5	<u> </u>	<u></u> 152
Potassium	ppm	ASTM D5185m	>20	<1	22	21
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.2	0.2
Vitration	Abs/cm	*ASTM D7624	>20	13.7	28.8	28.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	6.3	8.1
FLUID DEGRA	ADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	27.9	28.6
D N I (D.)	1/011/	AOTH DOCCO	100		0.4.0	A 0

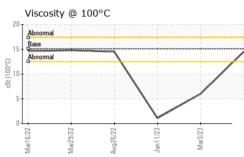
Base Number (BN) mg KOH/g ASTM D2896 10.2 5.3

34.9



OIL ANALYSIS REPORT

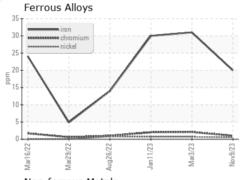


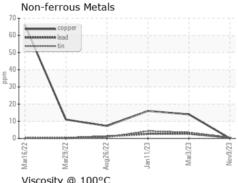


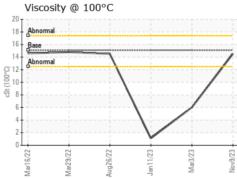
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	▲ MILKY	▲ MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	0.2%	△ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG

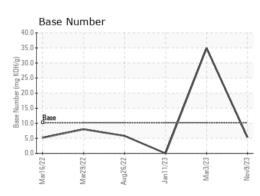
FLUID PROP	EHILO	method			riistory i	riistoryz
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	<u>^</u> 6	<u> 1.1</u>

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10741271 Test Package : FLEET

: GFL0084625 : 06007509

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Nov 2023 Diagnosed : 15 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 856 - Houston South 8515 Highway 6 South

Houston, TX US 77083

Contact: Apolinar Zacarias pzacariascano@gflenv.com

T: F:

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)