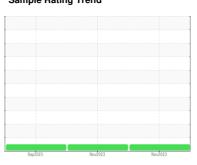


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **834015**

Component **Natural Gas Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

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.

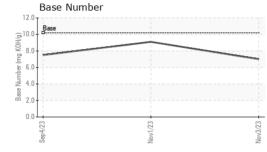
GAL)						V
SAMPLE INFOR	MATION		limit/base	Novž023 Novžt Current	history1	history2
Sample Number		Client Info		GFL0098599	GFL0098674	GFL0090649
Sample Date		Client Info		03 Nov 2023	01 Nov 2023	04 Sep 2023
Machine Age	hrs	Client Info		354	335	166
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	43	43	12
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Γitanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	4	4	3
_ead	ppm	ASTM D5185m	>30	1	2	1
Copper	ppm	ASTM D5185m	>35	15	15	2
Γin	ppm	ASTM D5185m	>4	2	1	<1
/anadium	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	16	13	51
Barium	ppm	ASTM D5185m	5	0	0	<1
Molybdenum	ppm	ASTM D5185m	50	50	51	51
Manganese	ppm	ASTM D5185m		9	9	1
Magnesium	ppm	ASTM D5185m	560	738	765	628
Calcium	ppm		1510	1177	1163	1485
Phosphorus	ppm	ASTM D5185m	780	696	704	783
Zinc	ppm	ASTM D5185m		912	926	972
Sulfur	ppm	ASTM D5185m	2040	2245	2267	2983
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	29	30	21
Sodium	ppm	ASTM D5185m		4	4	3
Potassium	ppm	ASTM D5185m	>20	4	5	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.4	0.1	0
Vitration	Abs/cm	*ASTM D7624	>20	11.7	6.9	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	19.0	19.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.7	14.8	16.7
D NII (DNI)		AOTAL DOCCO	100		0.4	7.5

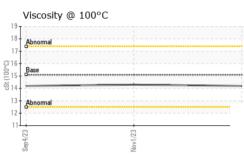
Base Number (BN) mg KOH/g ASTM D2896 10.2

7.0



OIL ANALYSIS REPORT

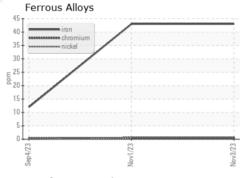


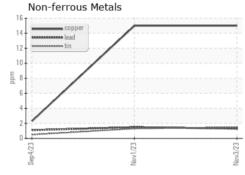


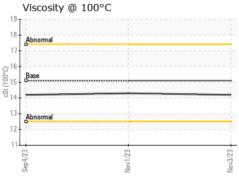
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

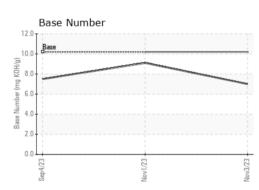
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.2	14.3	14.2

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10739961 Test Package : FLEET

: GFL0098599 : 06006199

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

: 13 Nov 2023 : 14 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126 Contact: Robert Hart

rhart@gflenv.com T: (580)461-1509

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)