

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **744010**

Component **Natural Gas Engine**

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

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

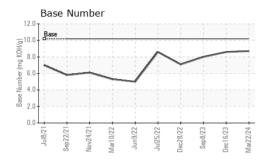
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

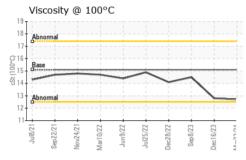
LTR)		Jul2021 Sep2	021 Nov2021 Mar2022 Jun2	2022 Jul2022 Dec2022 Sep2023 Dec2	023 Mar2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115505	GFL0089750	GFL0089707
Sample Date		Client Info		22 Mar 2024	16 Dec 2023	08 Sep 2023
Machine Age	hrs	Client Info		22540	22185	21810
Oil Age	hrs	Client Info		355	375	1238
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	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
Iron	ppm	ASTM D5185m	>50	19	19	4
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	<1	<1
Lead	ppm	ASTM D5185m	>30	1	1	0
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	4	2	27
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	56	56	51
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	854	807	598
Calcium	ppm	ASTM D5185m	1510	1052	1002	1656
Phosphorus	ppm	ASTM D5185m	780	1028	892	794
Zinc	ppm	ASTM D5185m	870	1230	1100	982
Sulfur	ppm	ASTM D5185m	2040	3329	2725	2968
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	3	3
Sodium	ppm	ASTM D5185m		17	17	5
Potassium	ppm	ASTM D5185m	>20	9	6	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		1.5	1.4	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.9	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	20.9	18.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	16.5	15.5
Dage Number (DNI)	m = 1/011/-	ACTAI DOCCO	100	0.7	0.0	0.0

Base Number (BN) mg KOH/g ASTM D2896 10.2 8.7



OIL ANALYSIS REPORT



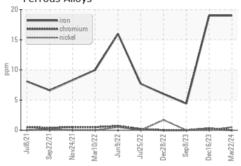


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

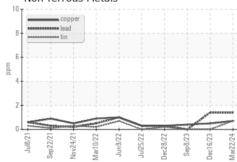
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	12.7	12.8	14.5

GRAPHS

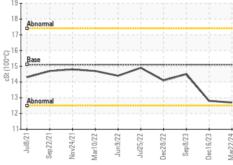
Ferrous Alloys











12.0 Number (mg KOH/g) 8.0 0.0

Base Number





Certificate L2367

Laboratory Sample No. Lab Number : 06129127 Unique Number: 10943278

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0115505

Received : 26 Mar 2024 **Tested** Diagnosed

: 27 Mar 2024 : 28 Mar 2024 - Don Baldridge

GFL Environmental - 882 - Gainesville

5002 SW 41st Blvd Gainesville, FL

US 32608 Contact: ROBERT CLARK

robert.clark@gflenv.com

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)

T:

F: