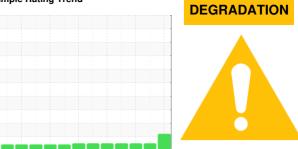


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **433003**

Component

Natural Gas Engine

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. 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.

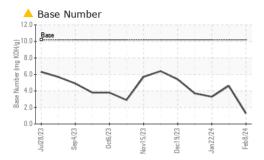
Fluid Condition

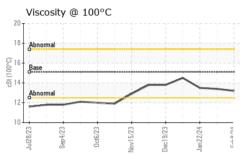
The BN level is low. The condition of the oil is acceptable for the time in service.

(LTR)								
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0109771	GFL0109856	GFL0103315		
Sample Date		Client Info		08 Feb 2024	05 Feb 2024	22 Jan 2024		
Machine Age	hrs	Client Info		2408	2350	2178		
Oil Age	hrs	Client Info		1200	0	0		
Oil Changed		Client Info		Changed	Not Changd	Not Changd		
Sample Status				ABNORMAL	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	11	9	9		
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>2	0	0	0		
Titanium	ppm	ASTM D5185m		0	<1	0		
Silver	ppm	ASTM D5185m	>3	0	0	0		
Aluminum	ppm	ASTM D5185m	>9	6	4	5		
Lead	ppm	ASTM D5185m	>30	6	3	2		
Copper	ppm	ASTM D5185m	>35	10	9	9		
Tin	ppm	ASTM D5185m	>4	<1	2	2		
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	17	6		
Barium	ppm	ASTM D5185m	5	0	<1	0		
Molybdenum	ppm	ASTM D5185m	50	51	50	44		
Manganese	ppm	ASTM D5185m	0	<1	1	<1		
Magnesium	ppm	ASTM D5185m	560	585	570	531		
Calcium	ppm	ASTM D5185m	1510	1561	1378	1481		
Phosphorus	ppm	ASTM D5185m	780	729	677	620		
Zinc	ppm	ASTM D5185m	870	935	872	835		
Sulfur	ppm	ASTM D5185m	2040	2368	2165	1998		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>+100	16	20	15		
Sodium	ppm	ASTM D5185m		3	12	4		
Potassium	ppm	ASTM D5185m	>20	0	0	<1		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844		0	0	0		
Nitration	Abs/cm	*ASTM D7624	>20	11.4	10.2	11.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.4	23.2	24.4		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.6	20.2	20.4		
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	1.3	4.6	3.3		
, ,	0							



OIL ANALYSIS REPORT

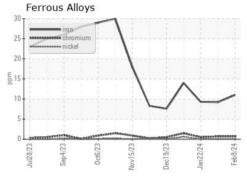


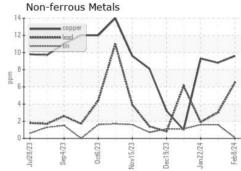


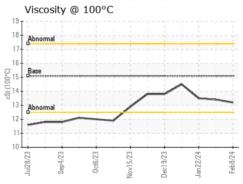
White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE NONE	NONE NONE	NONE NONE
Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE		NONE
Silt scalar *Visual NONE NONE	NICNIE	IVOIVE
	NONE	NONE
D. I. S. W. J. MONE. MONE.	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

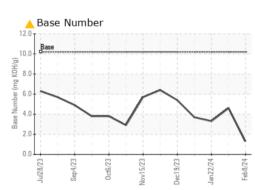
FLUID PROP	EHITES	method	iiiiii/base	current	riistory i	HIStory
Visc @ 100°C	cSt	ASTM D445	15.1	13.2	13.4	13.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06085660 Unique Number : 10873105

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109771

Received **Tested**

Diagnosed

: 12 Feb 2024 : 13 Feb 2024

: 13 Feb 2024 - Jonathan Hester

GFL Environmental - 836 - Kansas City Hauling 7801 East Truman Road

Kansas City, MO US 64126

Contact: Loyce Stewart loyce.stewart@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: