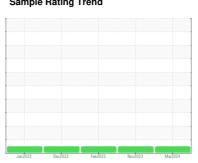


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



945013-260270

Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Engine oil sample)

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.

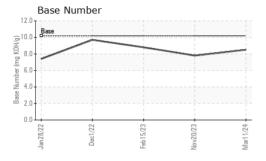
GAL)		Jan2022	Dec2022	Feb2023 Nov2023	Mar2024	
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114455	GFL0100540	GFL0065198
Sample Date		Client Info		11 Mar 2024	20 Nov 2023	15 Feb 2023
Machine Age	mls	Client Info		19459	15965	17767
Oil Age	mls	Client Info		19459	15965	17767
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	6	4	4
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Γitanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	<1	0
_ead	ppm	ASTM D5185m	>30	<1	<1	0
Copper	ppm	ASTM D5185m	>35	6	16	4
- in	ppm	ASTM D5185m	>4	<1	<1	0
/anadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	37	30	42
Barium	ppm	ASTM D5185m	5	2	0	0
Molybdenum	ppm	ASTM D5185m	50	49	50	49
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	560	539	636	495
Calcium	ppm	ASTM D5185m	1510	1571	1458	1502
Phosphorus	ppm	ASTM D5185m	780	718	828	734
Zinc	ppm	ASTM D5185m	870	936	974	906
Sulfur	ppm	ASTM D5185m	2040	2620	2516	2300
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	7	15	3
Sodium	ppm	ASTM D5185m		3	5	4
Potassium	ppm	ASTM D5185m	>20	2	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.9	6.5	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	18.5	18.9
FLUID DEGRA	ADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	15.3	15.7
D N		AOTH POOC	10.0		7.0	0.0

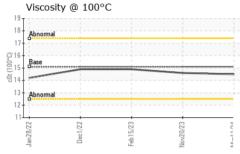
Base Number (BN) mg KOH/g ASTM D2896 10.2

8.5



OIL ANALYSIS REPORT

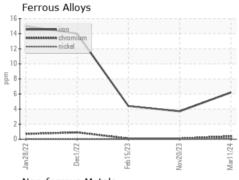


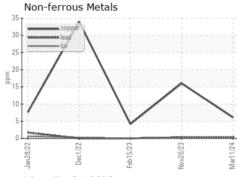


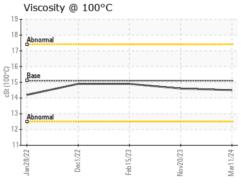
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

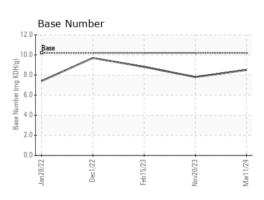
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.6	14.9

GRAPHS













Laboratory Sample No.

: GFL0114455 Lab Number : 06125405 Unique Number: 10939556

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Mar 2024

Tested : 22 Mar 2024 Diagnosed : 25 Mar 2024 - Don Baldridge

GFL Environmental - 865 - East Mount Hauling

7213 East Mount Houston Road Houston, TX US 77050

Contact: Saul Castillo saul.castillo@gflenv.com T:

Test Package : FLEET 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)

F: