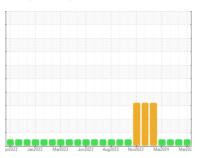


OIL ANALYSIS REPORT

Sample Rating Trend







731116
Component

Natural Gas Engine

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

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

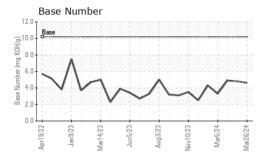
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

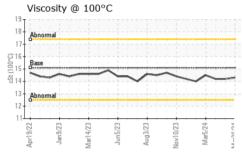
(GAL)		pr2022 Jan	2023 Mar2023 Jun20	23 Aug2023 Nov2023 Mar2	024 Mar202	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114077	GFL0114010	GFL0114098
Sample Date		Client Info		26 Mar 2024	07 Mar 2024	07 Mar 2024
Machine Age	hrs	Client Info		6722	6611	7368
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
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
Iron	ppm	ASTM D5185m	>50	43	9	9
Chromium	ppm	ASTM D5185m	>4	3	0	0
Nickel	ppm	ASTM D5185m	>2	2	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	5	<1	<1
Lead	ppm	ASTM D5185m	>30	3	<1	1
Copper	ppm	ASTM D5185m	>35	2	0	0
Tin	ppm	ASTM D5185m	>4	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	14	11	11
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	58	50	50
Manganese	ppm	ASTM D5185m	0	2	0	0
Magnesium	ppm	ASTM D5185m	560	508	481	489
Calcium	ppm	ASTM D5185m	1510	1637	1579	1582
Phosphorus	ppm	ASTM D5185m	780	755	626	631
Zinc	ppm	ASTM D5185m	870	980	863	890
Sulfur	ppm	ASTM D5185m	2040	2608	2243	2306
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	16	3	3
Sodium	ppm	ASTM D5185m		9	6	6
Potassium	ppm	ASTM D5185m	>20	3	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.2	10.8	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	20.7	20.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	17.3	17.4
5 N						

Base Number (BN) mg KOH/g ASTM D2896 10.2 4.6



OIL ANALYSIS REPORT

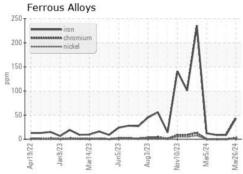


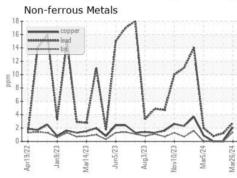


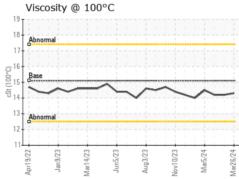
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

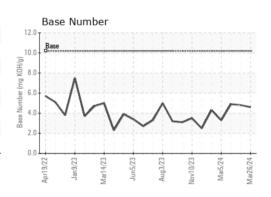
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.3	14.2	14.2

GRAPHS













Laboratory Sample No.

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

Lab Number : 06131761 Unique Number: 10951226 Test Package : FLEET

: GFL0114077

Received **Tested** Diagnosed

: 28 Mar 2024 : 29 Mar 2024 : 02 Apr 2024 - Don Baldridge

7801 East Truman Road Kansas City, MO US 64126

Contact: Loyce Stewart loyce.stewart@gflenv.com

GFL Environmental - 836 - Kansas City Hauling

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: