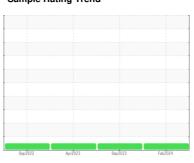


OIL ANALYSIS REPORT

Sample Rating Trend







940002

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

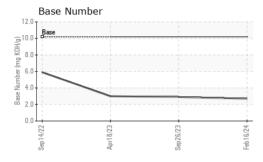
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

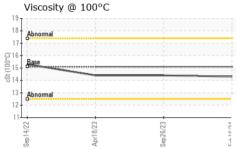
GAL)		Sep20Z	2 Apr2023	Sep2023 Fe	ь2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098073	GFL0080378	GFL0071259
Sample Date		Client Info		16 Feb 2024	26 Sep 2023	18 Apr 2023
Machine Age	hrs	Client Info		12695	11573	10425
Oil Age	hrs	Client Info		1122	11573	10425
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	8	17
Chromium	ppm	ASTM D5185m	>4	<1	2	4
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	0	6
Lead	ppm	ASTM D5185m	>30	2	4	5
Copper	ppm	ASTM D5185m	>35	1	2	8
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	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	4	6	6
Barium	ppm	ASTM D5185m	5	3	<1	0
Molybdenum	ppm	ASTM D5185m	50	49	55	58
Manganese	ppm	ASTM D5185m	0	0	<1	3
Magnesium	ppm	ASTM D5185m	560	497	552	782
Calcium	ppm	ASTM D5185m	1510	1453	1498	1435
Phosphorus	ppm	ASTM D5185m	780	710	682	704
Zinc	ppm	ASTM D5185m	870	868	929	945
Sulfur	ppm	ASTM D5185m	2040	2350	2554	2645
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	9	19	56
Sodium	ppm	ASTM D5185m		3	37	11
Potassium	ppm	ASTM D5185m	>20	2	3	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.7	12.0	13.5
Sulfation	Abs/.1mm	*ASTM D7415		25.0	24.9	27.2
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.1	22.0	24.7
Doos Number (DNI)	m = 1/011/-	ACTM DOCCO	100	0.7	2.0	2.0

Base Number (BN) mg KOH/g ASTM D2896 10.2 2.7



OIL ANALYSIS REPORT

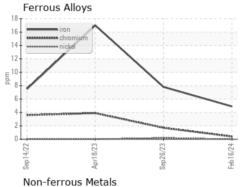


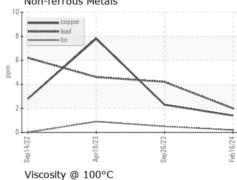


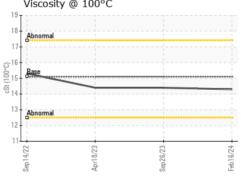
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

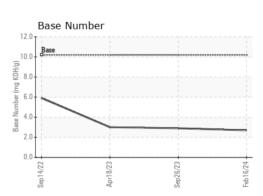
FLUID PROPE	RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.3	14.4	14.4

GRAPHS













Laboratory Sample No.

: GFL0098073 Lab Number : 06093990 Unique Number: 10886843

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

Tested Diagnosed Test Package : FLEET

: 20 Feb 2024 : 21 Feb 2024 : 21 Feb 2024 - Wes Davis

W144 S6400 College Ct. Muskego, WI US 53150

Contact: Brian Schlomann brian.schlomann@gflenv.com T: (262)510-4586

GFL Environmental - 932 - Muskego HC

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)