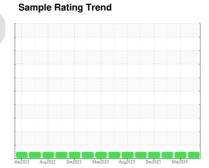


OIL ANALYSIS REPORT



(YA169069) 932005 Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (5 GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

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.

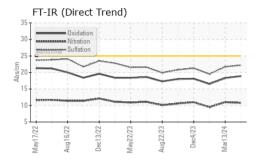
GEO LD 15W40	(5 GAL)	vlay2022 A	ug2022 Dec2022 May	2023 Aug2023 Dec2023	Mar2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118396	GFL0112946	GFL0098140
Sample Date		Client Info		21 May 2024	13 Mar 2024	17 Jan 2024
Machine Age	hrs	Client Info		490	490	490
Oil Age	hrs	Client Info		455	499	271
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	12	9
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	6	7	4
Lead	ppm	ASTM D5185m	>30	2	1	<1
Copper	ppm	ASTM D5185m		- <1	<1	<1
Tin	ppm		>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ррпп		limit/bass			
		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	7	13	13
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	50	55	53	51
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	560	603	551	596
Calcium	ppm	ASTM D5185m	1510	1639	1549	1644
Phosphorus	ppm	ASTM D5185m	780	735	710	816
Zinc	ppm	ASTM D5185m	870	1004	928	987
Sulfur	ppm	ASTM D5185m	2040	2766	2667	2712
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	5	5	4
Sodium	ppm	ASTM D5185m		8	8	6
Potassium	ppm	ASTM D5185m	>20	1	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.8	11.0	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	21.7	19.5
FLUID DEGRA	.DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	18.3	16.5

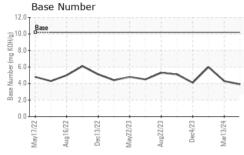
3.9

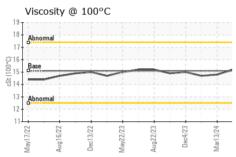
Base Number (BN) mg KOH/g ASTM D2896 10.2



OIL ANALYSIS REPORT



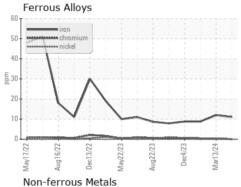


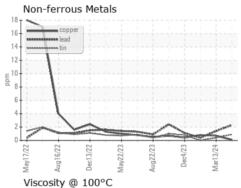


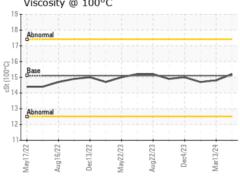
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

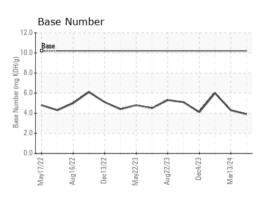
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	15.2	14.8	14.7

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06187036 Unique Number : 11043788

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0118396

Received : 21 May 2024 **Tested** Diagnosed

: 23 May 2024 : 23 May 2024 - Wes Davis

GFL Environmental - 017 - Durham

148 Stone Park Court Durham, NC US 27703

T: (919)596-1363

F: (919)598-1852

Contact: bill.waring@wearcheck.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)