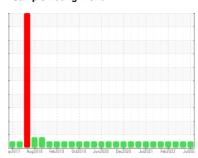


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 2668C Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (48 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

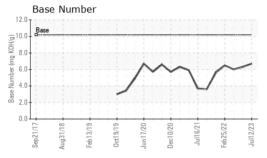
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

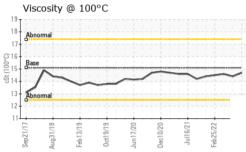
48 GAL)		192017 Aug2	y2017 Aug2018 Feb2019 Oct/019 Jun-2020 Oct/2020 Jul/2021 Feb/2022 Jul/202					
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0087128	GFL0052374	GFL0048549		
Sample Date		Client Info		12 Jul 2023	03 Jun 2022	17 Apr 2022		
Machine Age	hrs	Client Info		5639	2876	0		
Oil Age	hrs	Client Info		0	354	0		
Oil Changed		Client Info		Changed	Not Changd	N/A		
Sample Status				NORMAL	NORMAL	NORMAL		
WEAR METAI	LS	method	limit/base	current	history1	history2		
ron	ppm	ASTM D5185m	>50	8	4	5		
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>2	<1	<1	0		
Γitanium	ppm	ASTM D5185m		<1	0	0		
Silver	ppm	ASTM D5185m	>3	0	<1	<1		
Aluminum	ppm	ASTM D5185m	>9	4	2	2		
_ead	ppm	ASTM D5185m	>30	<1	<1	<1		
Copper	ppm	ASTM D5185m	>35	1	<1	<1		
Γin	ppm	ASTM D5185m	>4	<1	<1	<1		
Antimony	ppm	ASTM D5185m						
/anadium	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	17	24	26		
Barium	ppm	ASTM D5185m	5	2	0	0		
Molybdenum	ppm	ASTM D5185m	50	53	54	64		
Manganese	ppm	ASTM D5185m	0	<1	<1	<1		
Magnesium	ppm	ASTM D5185m	560	540	578	644		
Calcium	ppm	ASTM D5185m	1510	1625	1567	1667		
Phosphorus	ppm	ASTM D5185m	780	747	738	750		
Zinc	ppm	ASTM D5185m	870	980	981	923		
Sulfur	ppm	ASTM D5185m	2040	2678	2545	2336		
CONTAMINA	NTS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>+100	15	6	5		
Sodium	ppm	ASTM D5185m		6	5	11		
Potassium	ppm	ASTM D5185m	>20	2	<1	2		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844		0.1	0.1	0		
Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.2	11.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	19.9	23.0		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	16.6	18.6		
Dana Niverbay (DNI)	mm 1/011/	ACTM DOCCO	100	6.7	0.0	0.0		

Base Number (BN) mg KOH/g ASTM D2896 10.2 6.7



OIL ANALYSIS REPORT

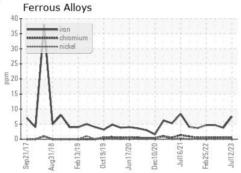


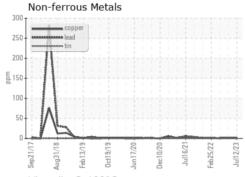


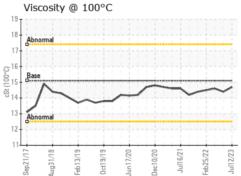
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

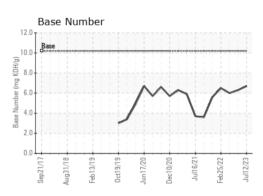
FLUID PROPI	EKIIES	method	ilmivbase		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.4	14.6

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10559692 Test Package : FLEET

: GFL0087128 : 05898336

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jul 2023 Diagnosed

: 17 Jul 2023 Diagnostician : Wes Davis

GFL Environmental - 001 - Raleigh(CNG)

3741 Conquest Drive Garner, NC US 27529

Contact: Craig Johnson craig.johnson@gflenv.com

T: (919)662-7100 F: (919)662-7130

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)

Report Id: GFL001 [WUSCAR] 05898336 (Generated: 07/17/2023 10:30:54) Rev: 1

Submitted By: Craig Johnson