

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 2638C Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (38 GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. 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

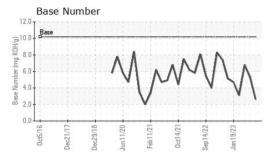
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

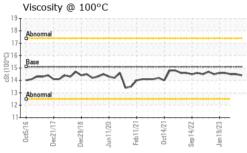
238 GAL)							
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2	
Sample Number Sample Date Machine Age	hrs	Client Info Client Info Client Info		GFL0052874 28 Sep 2023 15548	GFL0087800 06 Jul 2023 14964	GFL0082224 12 May 2023 14667	
Oil Age Oil Changed	hrs	Client Info Client Info		1119 Changed	535 Not Changd	238 Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
WEAR METAL	_S	method	limit/base	current	history1	history2	
Iron Chromium	ppm ppm	ASTM D5185m ASTM D5185m	>50 >4	32 3	13 1	12 2	
Nickel Titanium	ppm ppm	ASTM D5185m ASTM D5185m	>2	<1 0	0	<1 <1	
Silver Aluminum	ppm ppm	ASTM D5185m ASTM D5185m	>3 >9	0 7	0 4	0 5	
Lead Copper	ppm ppm	ASTM D5185m ASTM D5185m	>30 >35	16 4	2 4	4	
Tin Vanadium Cadmium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>4	<1 0 0	<1 0 0	<1 0 0	
ADDITIVES	ррш	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	50	6	11	27	
Barium	ppm	ASTM D5185m	5	0	0	2	
Molybdenum	ppm	ASTM D5185m	50	58	54	61	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	560	591	593	634	
Calcium	ppm	ASTM D5185m	1510	1690	1668	1781	
Phosphorus	ppm	ASTM D5185m	780	779	734	872	
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	870 2040	1024 2731	997 2890	1054 2748	
CONTAMINA	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>+100	7	5	7	
Sodium Potassium	ppm	ASTM D5185m	>20	9 2	7	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0	0.1	0	
Nitration	Abs/cm	*ASTM D7624	>20	12.5	11.1	9.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.8	22.6	21.4	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.6	19.9	17.8	
Deer Missels on (DAD)		AOTH POOCO	100		F 0	0.0	

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



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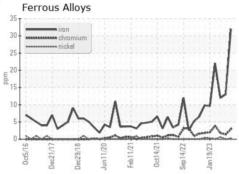


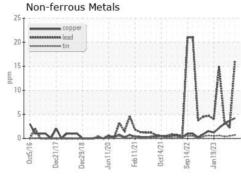


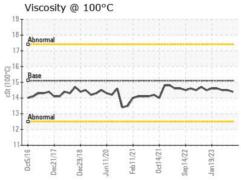
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

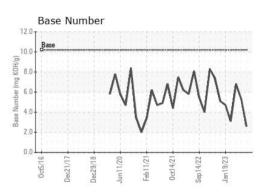
FLUID PROPE	:RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.5	14.5

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number**

: GFL0052874 : 05967324 : 10673875 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Oct 2023

: 05 Oct 2023 Diagnosed Diagnostician : Jonathan Hester GFL Environmental - 006 - Wilmington

3618 US Highway 421 N Wilmington, NC US 28401

Contact: Eric Wood eric.wood@gflenv.com T: (717)723-1956

* - 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: (910)762-6880