

(TFY1477) Machine Id 934058

Component Natural Gas Engine

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

Test

Sample Number

Sample Date

Machine Age

Oil Age

Filter Age

Oil Changed

Filter Changed

UOM

hrs

hrs

hrs

Method

Client Info

Client Info

Client Info

Client Info

Client Info

Client Info

Client Info

Limit/Abn

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Engine oil sample)

WEAR

All component wear rates are normal.

CONTAMINATION

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

Sample Status				NORMAL	NORMAL	
			. 50	16	10	
Iron	ppm	ASTM D5185m	>50 >4	10	18 1	
Chromium	ppm	ASTM D5185m		-		
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m	-	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>9	28	27	
Lead	ppm	ASTM D5185m	>30	<1	0	
Copper	ppm	ASTM D5185m	>35	3	3	
Tin	ppm	ASTM D5185m	>4	1	2	
Vanadium	ppm	ASTM D5185m		<1	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
<u></u>			400		_	
Silicon	ppm	ASTM D5185m	>+100	11	7	
Potassium	ppm	ASTM D5185m	>20	91	132	
Water		WC Method	>0.1	NEG	NEG	
Glycol		WC Method			0.0	
Soot %	%	*ASTM D7844		0.2	0	
Nitration	Abs/cm	*ASTM D7624	>20	7.1	10.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	20.4	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Sodium	ppm	ASTM D5185m		6	4	
Boron	ppm	ASTM D5185m	50	10	10	
Barium	ppm	ASTM D5185m	5	0	0	
Molybdenum	ppm	ASTM D5185m	50	52	53	
Manganese	ppm	ASTM D5185m	0	2	2	
Magnesium	ppm	ASTM D5185m	560	572	570	
Calcium	ppm	ASTM D5185m	1510	1513	1431	
Phosphorus	ppm	ASTM D5185m	780	699	730	
Zinc	ppm	ASTM D5185m	870	915	980	
Sulfur	ppm	ASTM D5185m	2040	2303	2393	
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	17.9	
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.0	4.9	
Visc @ 100°C	cSt	ASTM D445	15.1	14.6	14.6	

FLUID CONDITION

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

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Current

GFL0103943

14 Feb 2024

Not Changd

Not Changd

1485

1485

0

History1

19 Dec 2023

Changed

Changed ----

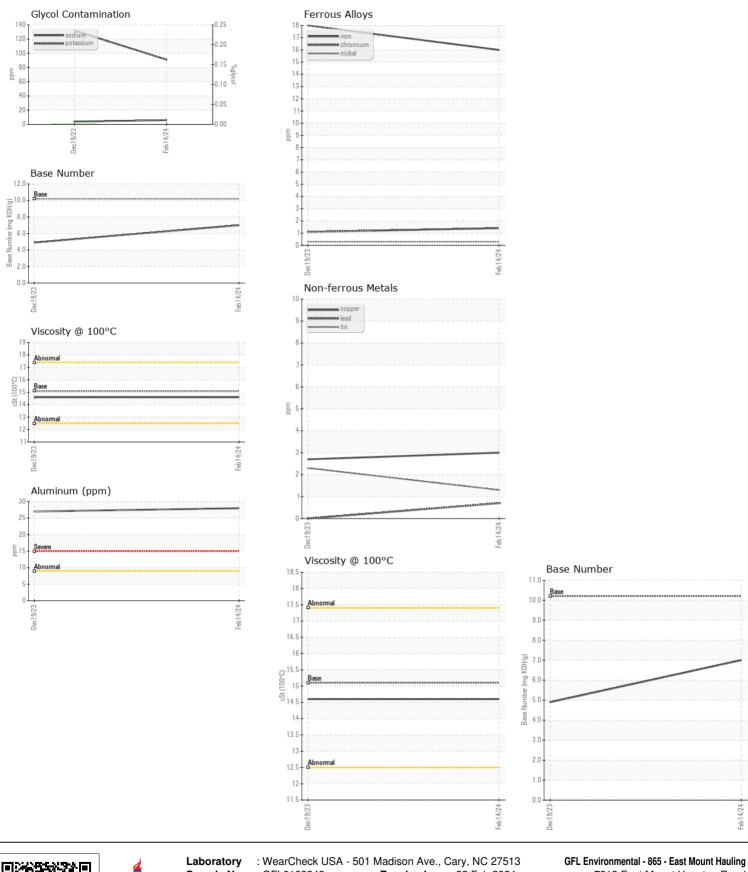
1033

0

0

GFL0100543 ----

History2



Sample No. Received : 22 Feb 2024 7213 East Mount Houston Road : GFL0103943 : 23 Feb 2024 Lab Number : 06097513 Houston, TX Tested Unique Number : 10890366 : 24 Feb 2024 - Don Baldridge US 77050 Diagnosed Test Package : FLEET Contact: TECHNICIAN ACCOUNT Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. wcgfldemo@gmail.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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Submitted By: TECHNICIAN ACCOUNT