

(YA122770)

**Natural Gas Engine** 

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

10566C

🔺 Wear

oil.

Contamination

## **OIL ANALYSIS REPORT**

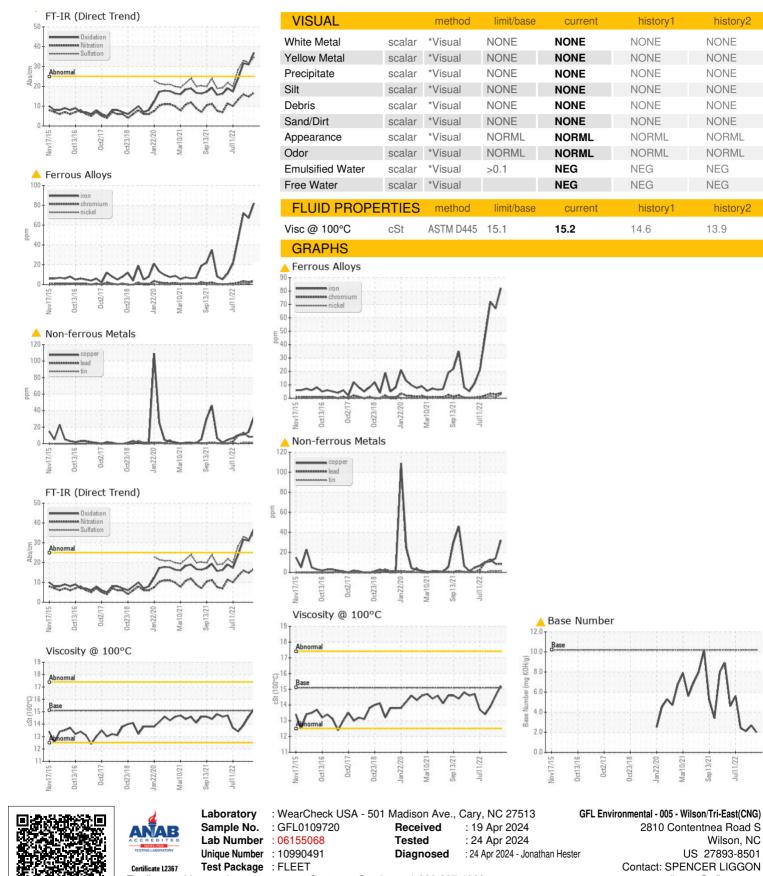
## DEGRADATION

## 

DIAGNOSIS SAMPLE INFORMATION method limit/base current history1 history2 GFL0109720 GFL0092731 GFL0072344 Sample Number **Client Info** Recommendation The oil is near the end of it's useful service life, Sample Date Client Info 11 Apr 2024 13 Dec 2023 17 May 2023 recommend schedule an oil change. Resample at Client Info 0 Machine Age hrs 21277 21277 the next service interval to monitor. Oil Age hrs Client Info 0 232 21277 Oil Changed Client Info N/A Changed Not Changd The copper level is marginal. Cylinder, crank, or Sample Status ABNORMAL ABNORMAL ABNORMAL cam shaft wear is indicated. CONTAMINATION method limit/base current history1 history2 There is no indication of any contamination in the Water NEG WC Method >0.1 NEG NFG WEAR METALS method limit/base current history1 historv2 Fluid Condition Iron ASTM D5185m >50 82 67 ▲ 72 ppm The BN level is low. The condition of the oil is acceptable for the time in service. Chromium ASTM D5185m >4 4 3 3 ppm Nickel 3 2 ppm ASTM D5185m >2 -1 Titanium ASTM D5185m <1 0 0 ppm 0 Silver >3 n 0 ppm ASTM D5185m Aluminum ppm ASTM D5185m >9 4 3 2 ASTM D5185m >30 8 8 13 Lead ppm >35 32 14 11 Copper ppm ASTM D5185m 2 Tin ASTM D5185m >4 1 2 ppm Vanadium ppm ASTM D5185m <1 <1 <1 0 0 Cadmium ppm ASTM D5185m <1 **ADDITIVES** method limit/base current history1 history2 10 12 8 Boron ASTM D5185m 50 ppm ASTM D5185m 5 0 0 Barium ppm 0 Molvbdenum ASTM D5185m 50 88 75 78 ppm 0 2 2 2 Manganese ppm ASTM D5185m Magnesium ASTM D5185m 560 966 889 1001 ppm Calcium ASTM D5185m 1510 2082 1794 ppm 1731 Phosphorus ASTM D5185m 780 1295 1006 1087 ppm Zinc ppm ASTM D5185m 870 1506 1386 1447 Sulfur ASTM D5185m 2040 3144 2522 3229 ppm **CONTAMINANTS** limit/base history2 method current history1 Silicon ppm ASTM D5185m >+100 11 8 10 Sodium ASTM D5185m 8 6 8 ppm Potassium ASTM D5185m >20 2 0 ppm <1 **INFRA-RED** limit/base current history1 history2 method Soot % % \*ASTM D7844 0.1 0.1 0.1 Nitration Abs/cm \*ASTM D7624 >20 16.8 14.8 15.9 Sulfation \*ASTM D7415 34.6 Abs/.1mm >30 31.7 33.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation \*ASTM D7414 36.9 31.0 31.6 Abs/.1mm >25 2.7 Base Number (BN) mg KOH/g ASTM D2896 10.2 2.0 2.1



## **OIL ANALYSIS REPORT**



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: GFL005 [WUSCAR] 06155068 (Generated: 04/24/2024 11:53:18) Rev: 1

Submitted By: See also GFL005,019,119,19DR - SPENCER LIGGON

ct23/18

an22/20

history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NEG

NEG

14.6

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history2

NEG

NEG

13.9

E:

Wilson, NC

US 27893-8501

T: (800)207-6618

Sep13/21

2810 Contentnea Road S

Contact: SPENCER LIGGON

spencer.liggon@gflenv.com

Mar10/21