

(P618186)

**Natural Gas Engine** 

2677C Component

to monitor.

Wear

## **OIL ANALYSIS REPORT**

## COOL CHEMICALS

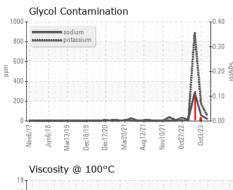
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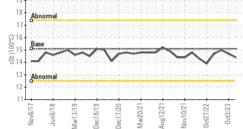
Sample Rating Trend

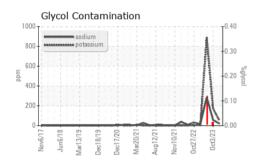
PETRO CANADA DURON GEO LD 15W40 (40 QTS) SAMPLE INFORMATION method DIAGNOSIS GFL0101787 GFL0090114 GFL0070764 Sample Number **Client Info** Recommendation Oil and filter change at the time of sampling has Sample Date Client Info 18 Mar 2024 03 Oct 2023 18 May 2023 been noted. Resample at the next service interval Machine Age hrs Client Info 14655 13526 12585 Oil Age hrs Client Info 600 600 600 Oil Changed Changed **Client Info** Changed Changed All component wear rates are normal. Sample Status ATTENTION SEVERE SEVERE Contamination CONTAMINATION Sodium and/or potassium levels are high. Test for glycol is negative. Water >0.1 NEG NEG WC Method NEG Fluid Condition WEAR METALS The BN result indicates that there is suitable Iron ASTM D5185m >50 8 6 9 ppm alkalinity remaining in the oil. The condition of the 2 oil is acceptable for the time in service. Chromium ASTM D5185m >4 ppm 1 1 Nickel ASTM D5185m >2 <1 ~1  $\cap$ ppm Titanium ASTM D5185m 0 ppm <1 <1 0 Silver >3 0 0 ppm ASTM D5185m Aluminum ppm ASTM D5185m >9 2 3 4 ASTM D5185m >30 4 2 Lead ppm <1 >35 <1 Copper ppm ASTM D5185m <1 <1 Tin ASTM D5185m <1 <1 0 ppm >4 Vanadium 0 0 0 ppm ASTM D5185m 0 Cadmium 0 ppm ASTM D5185m 0 **ADDITIVES** 9 8 14 Boron ASTM D5185m 50 ppm ASTM D5185m 5 0 0 Barium ppm 0 Molvbdenum ASTM D5185m 50 52 50 56 ppm 0 <1 <1 1 Manganese ppm ASTM D5185m Magnesium ASTM D5185m 560 538 563 435 ppm Calcium ASTM D5185m 1510 1594 1559 ppm 1556 Phosphorus ASTM D5185m 780 676 652 601 ppm Zinc ppm ASTM D5185m 870 946 951 855 Sulfur ASTM D5185m 2040 2438 2343 2215 ppm CONTAMINANTS Silicon ppm ASTM D5185m >+100 7 10 20 Sodium ASTM D5185m 20 56 284 ppm Potassium ASTM D5185m >20 48 173 A 892 ppm % \*ASTM D2982 ▲ 0.012 ▲ 0.12 Glycol **INFRA-RED** 0 Soot % % \*ASTM D7844 0 0.1 Nitration Abs/cm \*ASTM D7624 >20 12.3 11.4 11.5 Sulfation Abs/.1mm \*ASTM D7415 >30 24.6 23.9 22.4 FLUID DEGRADATION method >25 20.8 Oxidation Abs/.1mm \*ASTM D7414 21.0 18.3 Base Number (BN) mg KOH/g ASTM D2896 10.2 3.1 3.9 6.3



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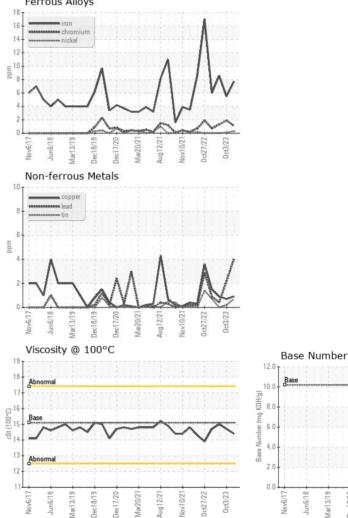


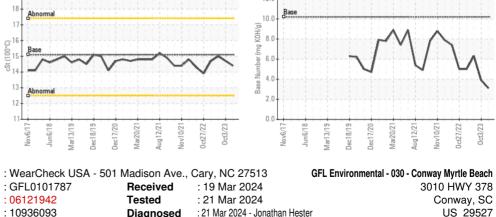




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.7	15.0
GRAPHS						

Ferrous Alloys





US 29527 Contact: ARCILIO RUEZ aruiz@gflenv.com Т:

Lab Number : 06121942 Unique Number : 10936093 Test Package : FLEET Certificate L2367

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.

: GFL0101787

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

Diagnosed

Tested

: 19 Mar 2024

: 21 Mar 2024

Laboratory

Sample No.

Submitted By: TECHNICIAN ACCOUNT

F: