

OIL ANALYSIS REPORT

Sample Rating Trend





Wear

oil

breaking in.

732027 Component

Machine Ic

Fluic

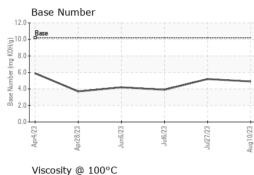
Natural Gas Engine

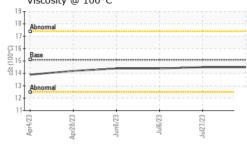
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS SAMPLE INFORMATION method GFL0090685 GFL0087179 GFL0087218 Sample Number **Client Info** Recommendation Resample at the next service interval to monitor. Sample Date Client Info 10 Aug 2023 27 Jul 2023 06 Jul 2023 Machine Age hrs **Client Info** 941 4234 640 Metal levels are typical for a new component Oil Age hrs Client Info 941 0 0 Oil Changed Client Info Not Changd Not Changd Not Changd Sample Status NORMAL NORMAL NORMAL Contamination There is no indication of any contamination in the WEAR METALS ASTM D5185m >50 69 66 82 Iron ppm Fluid Condition Chromium ASTM D5185m >5 2 2 ppm 1 The BN result indicates that there is suitable 2 alkalinity remaining in the oil. The condition of the Nickel ppm ASTM D5185m >4 2 2 oil is suitable for further service. Titanium ASTM D5185m >5 2 2 3 ppm 0 Silver ppm ASTM D5185m >3 <1 <1 Aluminum ASTM D5185m >25 10 8 9 ppm Lead ASTM D5185m >40 2 2 3 ppm Copper ASTM D5185m >150 13 13 18 ppm Tin ppm ASTM D5185m >4 2 1 2 Vanadium ASTM D5185m 0 ppm <1 <1 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES 12 9 ASTM D5185m 50 11 Boron ppm Barium ppm ASTM D5185m 5 0 0 3 50 61 54 57 Molybdenum ASTM D5185m ppm 6 6 8 Manganese ppm ASTM D5185m 0 708 795 Magnesium ASTM D5185m 560 770 ppm 1475 Calcium ppm ASTM D5185m 1510 1676 1389 Phosphorus ppm ASTM D5185m 780 814 721 735 Zinc ASTM D5185m 870 1060 935 978 ppm Sulfur ASTM D5185m 2040 2638 2881 ppm 3049 CONTAMINANTS Silicon ppm ASTM D5185m >25 26 27 44 6 6 Sodium ppm ASTM D5185m 6 Potassium ASTM D5185m >20 18 15 18 ppm **INFRA-RED** % 0 Soot % *ASTM D7844 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 11.6 10.6 12.0 Sulfation Abs/.1mm *ASTM D7415 >30 24.1 23.5 25.9 FLUID DEGRADATION 20.1 18.9 21.3 Oxidation Abs/.1mm *ASTM D7414 >25 Base Number (BN) mg KOH/g ASTM D2896 10.2 4.9 5.2 3.9

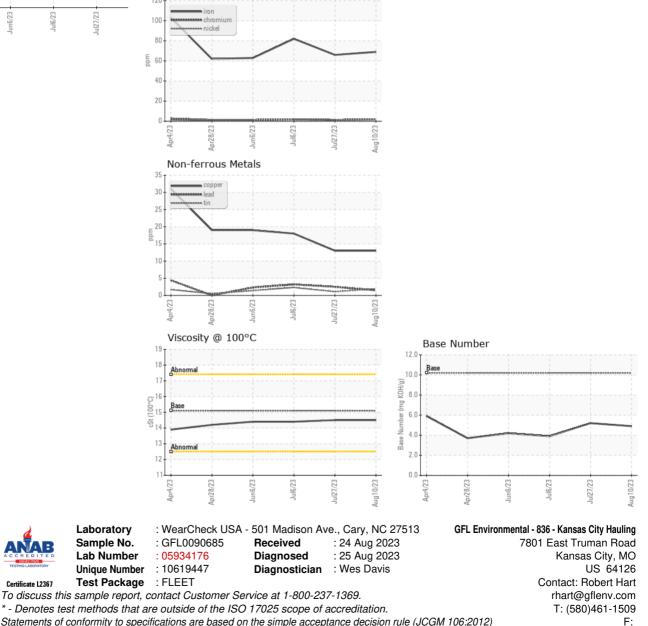


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VISUAL		method	limit/base	current	history1	history2
					· · · · ·	
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
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	14.5	14.5	14.4
GRAPHS						
Ferrous Alloys						
20 iron						



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

Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836