

OIL ANALYSIS REPORT

Sample Rating Trend



728033-361504 Component Diesel Engine Eluid

PETRO CANADA DURON SHP 15W40 (--- LTR)

SAMPLE INFORMATION method GFL0115515 GFL0106997 GFL0094255 Sample Number **Client Info** Sample Date Client Info 24 Apr 2024 19 Jan 2024 12 Oct 2023 Machine Age hrs **Client Info** 7405 17295 11500 Oil Age hrs Client Info 7405 2877 0 Oil Changed Client Info Changed N/A Changed NORMAL Sample Status NORMAL NORMAL CONTAMINATION Fuel >5 <1.0 WC Method <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS >80 21 22 80 Iron ppm ASTM D5185m ASTM D5185m >5 0 <1 2 Chromium ppm 0 Nickel >2 2 ppm ASTM D5185m <1 Titanium ppm ASTM D5185m 0 <1 <1 Silver ASTM D5185m >3 0 0 0 ppm Aluminum >30 1 5 ppm ASTM D5185m 1 Lead ASTM D5185m >30 <1 0 ppm <1 ASTM D5185m >150 2 Copper ppm <1 <1 0 Tin ppm ASTM D5185m >5 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 Cadmium 0 0 0 ASTM D5185m ppm ADDITIVES Boron mag ASTM D5185m 0 2 2 3 Barium ASTM D5185m 0 0 0 0 ppm 61 Molybdenum ASTM D5185m 60 60 61 ppm ASTM D5185m 0 Manganese ppm <1 <1 <1 Magnesium ASTM D5185m 1010 888 864 822 ppm Calcium ppm ASTM D5185m 1070 1142 1078 1072 Phosphorus ASTM D5185m 1150 1013 1002 962 ppm Zinc ppm ASTM D5185m 1270 1225 1192 1147 Sulfur ASTM D5185m 2060 3464 3224 2483 ppm CONTAMINANTS 3 3 Silicon ASTM D5185m >20 11 ppm Sodium ASTM D5185m 20 12 0 ppm Potassium ASTM D5185m >20 8 10 ppm 1 **INFRA-RED** % 1.4 1.5 0.7 Soot % *ASTM D7844 >3 Nitration Abs/cm *ASTM D7624 >20 10.5 10.0 12.4 20.6 Sulfation *ASTM D7415 >30 21.1 24.8 Abs/.1mm FLUID DEGRADATION *ASTM D7414 >25 16.5 16.3 25.1 Oxidation Abs/.1mm

Base Number (BN) mg KOH/g ASTM D2896 9.8

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Machine Id

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.

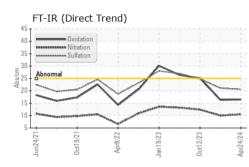
8.3

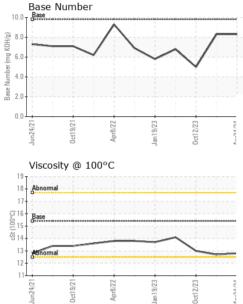
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5.0

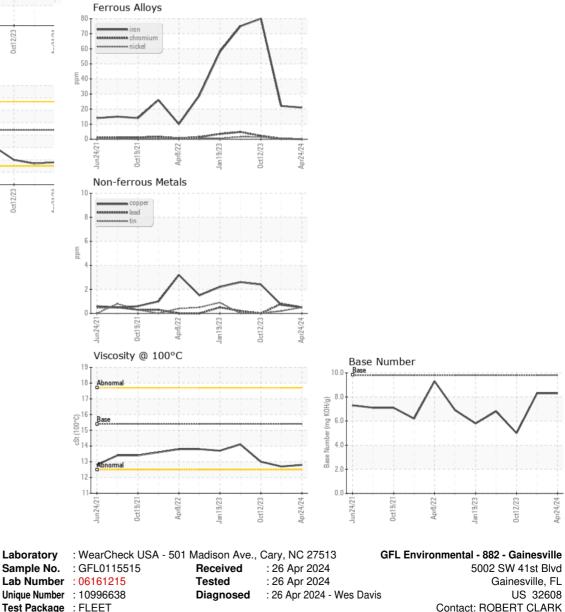


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	>0.2	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	15.4	12.8	12.7	13.0
GRAPHS						





Unique Number : 10996638 Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. robert.clark@gflenv.com * - 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)

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Submitted By: CARL MIMS

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