

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine In 424050-402438

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

SAMPLE INFORMATION method GFL0114424 GFL0100520 GFL0093296 Sample Number **Client Info** Sample Date Client Info 12 Mar 2024 01 Nov 2023 16 Oct 2023 23883 Machine Age hrs Client Info 23233 493429 Oil Age hrs Client Info 0 23233 493429 Oil Changed Not Changd **Client Info** Changed Changed Sample Status NORMAL NORMAL NORMAL CONTAMINATION Fuel >3.0 WC Method <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS >120 3 4 Iron ppm ASTM D5185m -1 ASTM D5185m >20 0 <1 Chromium ppm <1 0 0 Nickel >5 ppm ASTM D5185m 0 Titanium ppm ASTM D5185m >2 0 0 <1 Silver ASTM D5185m >2 0 0 0 ppm >20 2 1 2 Aluminum ppm ASTM D5185m 0 Lead ASTM D5185m >40 0 ppm <1 ASTM D5185m >330 0 Copper ppm <1 <1 Tin ppm ASTM D5185m >15 <1 <1 1 Vanadium ppm ASTM D5185m 0 0 0 Cadmium 0 0 ASTM D5185m ppm <1 ADDITIVES Boron mag ASTM D5185m 0 5 4 7 Barium ASTM D5185m 0 0 0 0 ppm 55 Molybdenum ASTM D5185m 60 57 48 ppm ASTM D5185m 0 0 Manganese ppm <1 <1 Magnesium ASTM D5185m 1010 950 923 722 ppm Calcium ppm ASTM D5185m 1070 1037 1049 1180 Phosphorus ASTM D5185m 1150 1042 1032 756 ppm Zinc ppm ASTM D5185m 1270 1258 1214 1012 Sulfur ASTM D5185m 2060 3661 3062 2350 ppm CONTAMINANTS 3 Silicon ASTM D5185m >25 4 4 ppm 2 Sodium ASTM D5185m 3 6 ppm Potassium ASTM D5185m >20 2 0 4 ppm **INFRA-RED** 0.1 % 0.1 0.2 Soot % *ASTM D7844 >4 Nitration Abs/cm *ASTM D7624 >20 5.2 5.2 8.4 Sulfation *ASTM D7415 >30 17.7 17.9 19.6 Abs/.1mm FLUID DEGRADATION *ASTM D7414 >25 13.8 14.1 17.2 Oxidation Abs/.1mm

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

Component **Diesel Engine** Eluic DIAGNOSIS Recommendation Resample at the next service interval to monitor. (Customer Sample Comment: Sample)

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.

8.9

8.7

6.3



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VISUAL		method				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
		method	limit/baco	current	history1	history?
	NHES	methou	iiiiii/base	Current	TIIStOLA	TIIStOLYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.2	13.8
GRAPHS						



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

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