

OIL ANALYSIS REPORT

Sample Rating Trend





DIAGNOSIS

Recommendation

Contamination

Fluid Condition

Wear

oil

Machine Id 922004-9921

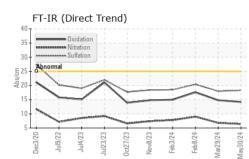
Diesel Engine

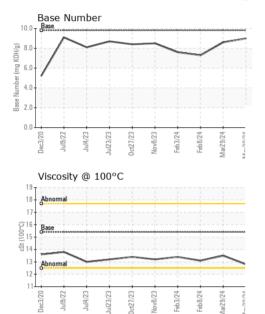
PETRO CANADA DURON SHP 15W40 (--- LTR)

SAMPLE INFORMATION method GFL0091890 GFL0112809 GFL0112762 Sample Number **Client Info** Resample at the next service interval to monitor. Sample Date Client Info 30 May 2024 29 Mar 2024 08 Feb 2024 29766 Machine Age hrs **Client Info** 29434 29167 All component wear rates are normal. Oil Age hrs Client Info 0 0 0 Oil Changed Client Info Not Changd Changed Changed Sample Status NORMAL NORMAL NORMAL There is no indication of any contamination in the CONTAMINATION Fuel >3.0 WC Method <1.0 <1.0 <1.0 The BN result indicates that there is suitable Water WC Method >0.2 NEG NEG NEG alkalinity remaining in the oil. The condition of the oil is suitable for further service. Glycol WC Method NEG NEG NEG WEAR METALS 8 >120 9 10 Iron ppm ASTM D5185m ASTM D5185m >20 0 0 Chromium ppm 1 Nickel >5 1 <1 3 ppm ASTM D5185m Titanium ppm ASTM D5185m >2 0 0 <1 Silver ASTM D5185m >2 0 0 <1 ppm Aluminum >20 3 1 2 ppm ASTM D5185m 0 Lead ASTM D5185m >40 0 ppm 1 ASTM D5185m >330 2 Copper ppm 1 <1 0 Tin ppm ASTM D5185m >15 <1 <1 Vanadium ppm ASTM D5185m 0 0 <1 Cadmium 0 0 ASTM D5185m ppm <1 ADDITIVES Boron mag ASTM D5185m 0 1 0 4 Barium ASTM D5185m 0 0 0 0 ppm 51 59 Molybdenum ASTM D5185m 60 58 ppm ASTM D5185m 0 0 Manganese ppm <1 <1 Magnesium ASTM D5185m 1010 887 979 907 ppm Calcium ppm ASTM D5185m 1070 990 1111 1000 Phosphorus ASTM D5185m 1150 982 1055 918 ppm Zinc ppm ASTM D5185m 1270 1162 1266 1158 Sulfur ASTM D5185m 2060 3419 3687 3071 ppm CONTAMINANTS 5 3 5 Silicon ASTM D5185m >25 ppm 2 Sodium ASTM D5185m 3 0 ppm Potassium ASTM D5185m >20 4 3 ppm <1 **INFRA-RED** 0.3 % 0.2 0.3 Soot % *ASTM D7844 >4 Nitration Abs/cm *ASTM D7624 >20 6.4 6.8 9.0 Sulfation *ASTM D7415 >30 18.3 18.0 20.4 Abs/.1mm FLUID DEGRADATION *ASTM D7414 >25 14.2 14.8 17.6 Oxidation Abs/.1mm 8.6 Base Number (BN) mg KOH/g ASTM D2896 9.8 9.0 7.3

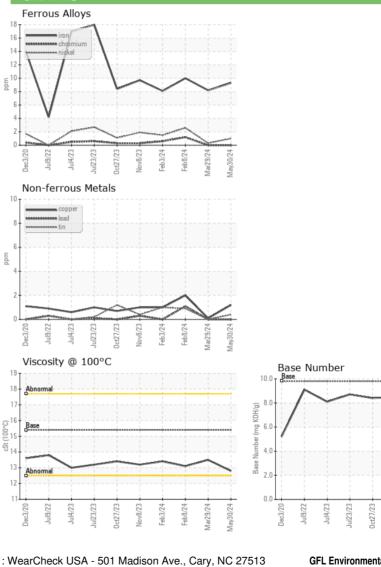


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	>0.2	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	13.5	13.1
GRAPHS						





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Submitted By: TECHNICIAN ACCOUNT

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