

1

Wear

oil

Area

OIL ANALYSIS REPORT

Sample Rating Trend



MONTGOMERY MACK 924016-142519 **Diesel Engine**

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

DIAGNOSIS SAMPLE INFORMATION method GFL0088015 GFL0118454 GFL0083553 Sample Number **Client Info** Recommendation Resample at the next service interval to monitor. Sample Date Client Info 08 May 2024 22 Apr 2024 03 Apr 2024 22189 Machine Age hrs **Client Info** 22188 22150 All component wear rates are normal. Oil Age hrs Client Info 216 0 177 Oil Changed Client Info Not Changd N/A Not Changd Contamination Sample Status NORMAL NORMAL NORMAL There is no indication of any contamination in the CONTAMINATION Fluid Condition 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 >120 14 16 30 Iron ppm ASTM D5185m ASTM D5185m >20 <1 0 0 Chromium ppm 0 Nickel >5 0 ppm ASTM D5185m <1 Titanium ppm ASTM D5185m >2 <1 0 0 Silver ASTM D5185m >2 0 0 0 ppm Aluminum ASTM D5185m >20 4 7 6 ppm 3 Lead ASTM D5185m >40 0 0 ppm ASTM D5185m >330 15 6 6 Copper ppm 0 0 Tin ppm ASTM D5185m >15 1 Vanadium ppm ASTM D5185m <1 0 0 Cadmium 0 0 ASTM D5185m <1 ppm ADDITIVES Boron mag ASTM D5185m 0 1 5 5 Barium ASTM D5185m 0 0 0 0 ppm 56 Molybdenum ASTM D5185m 60 62 63 ppm ASTM D5185m 0 Manganese ppm <1 <1 <1 Magnesium ASTM D5185m 1010 873 1042 1072 ppm Calcium ppm ASTM D5185m 1070 1019 1130 1174 Phosphorus ASTM D5185m 1150 1008 1115 1152 ppm Zinc ppm ASTM D5185m 1270 1170 1344 1427 Sulfur ASTM D5185m 2060 3134 3929 4424 ppm CONTAMINANTS 8 8 7 Silicon ASTM D5185m >25 ppm Sodium ASTM D5185m 6 9 7 ppm Potassium ASTM D5185m >20 4 3 3 ppm **INFRA-RED** 0.2 % 0.2 0.2 Soot % *ASTM D7844 >4 Nitration Abs/cm *ASTM D7624 >20 6.3 6.2 6.1 Sulfation *ASTM D7415 >30 18.3 17.5 17.5 Abs/.1mm FLUID DEGRADATION *ASTM D7414 >25 14.2 13.8 13.9 Oxidation Abs/.1mm

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

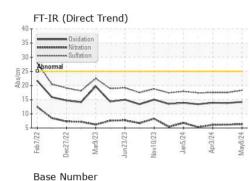
9.2

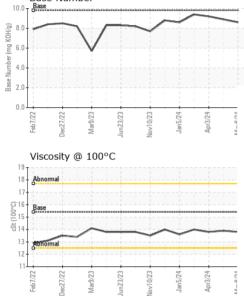
8.9

8.6

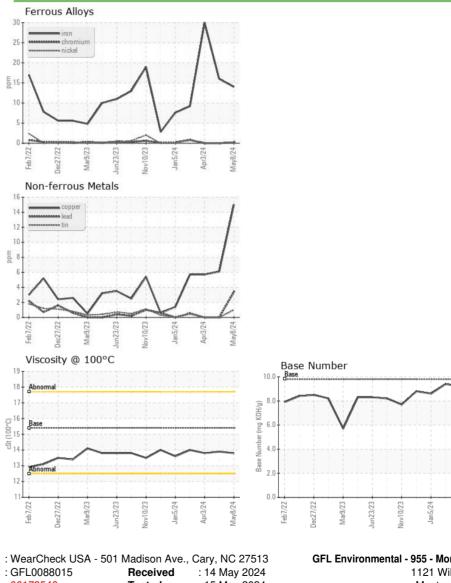


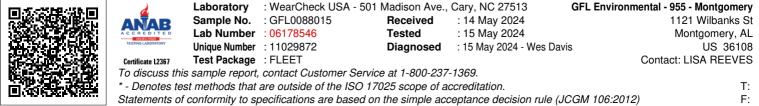
OIL ANALYSIS REPORT





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	13.8	13.9	13.8
GRAPHS						





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