

OIL ANALYSIS REPORT

KEMP QUARRIES / RVM-BUTTERFIELD [66114]

Sample Rating Trend



NORMAL

Rear Right Final Drive

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

SAMPLE INFORMATION method PCA0085768 PCA0087040 PCA0062062 Sample Number **Client Info** Sample Date Client Info 08 Nov 2023 01 Jun 2023 01 Dec 2022 Machine Age hrs Client Info 42315 41808 41316 Oil Age hrs Client Info 42315 41808 41316 Oil Changed **Client Info** Changed N/A N/A NORMAL Sample Status NORMAL NORMAL CONTAMINATION >0.2 NEG NEG NEG Water WC Method WEAR METALS >800 ASTM D5185m 18 18 11 Iron ppm Chromium ASTM D5185m >10 0 ppm <1 <1 Nickel ASTM D5185m >5 0 -1 <1 ppm Titanium 0 0 0 ppm ASTM D5185m >15 0 0 Silver >2 0 ppm ASTM D5185m Aluminum ppm ASTM D5185m >75 0 2 1 ASTM D5185m >10 0 3 Lead <1 ppm 0 0 Copper ppm ASTM D5185m >75 <1 Tin ASTM D5185m >8 0 <1 ppm <1 0 0 0 Vanadium ASTM D5185m ppm 0 Cadmium 0 ppm ASTM D5185m 0 **ADDITIVES** 2 0 3 Boron ASTM D5185m <1 ppm ASTM D5185m 0 0 Barium ppm 0 0 Molvbdenum ASTM D5185m 0 0 1 1 ppm ASTM D5185m 0 0 Manganese ppm <1 <1 Magnesium ASTM D5185m 9 19 24 22 ppm Calcium ASTM D5185m 3114 3019 3538 3278 ppm Phosphorus ASTM D5185m 1099 994 1087 984 ppm Zinc ppm ASTM D5185m 1245 1211 1353 1313 Sulfur ASTM D5185m 7086 4159 5855 5261 ppm CONTAMINANTS Silicon ppm ASTM D5185m >400 12 14 11 Sodium ASTM D5185m 2 2 2 ppm Potassium ASTM D5185m >20 0 1 1 ppm VISUAL NONE White Metal *Visual NONE NONE NONE scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris NONE NONE scalar *Visua NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE *Visual NORML NORML NORML NORML Appearance scalar NORML NORML NORML NORML Odor scalar *Visual **Emulsified Water** NEG scalar *Visual >0.2 NEG NEG NEG Free Water scalar *Visual NEG NEG

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-4 changed fluid)

WL081 Componen

Wear

All component wear rates are normal.

Contamination

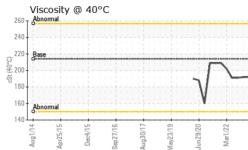
There is no indication of any contamination in the oil.

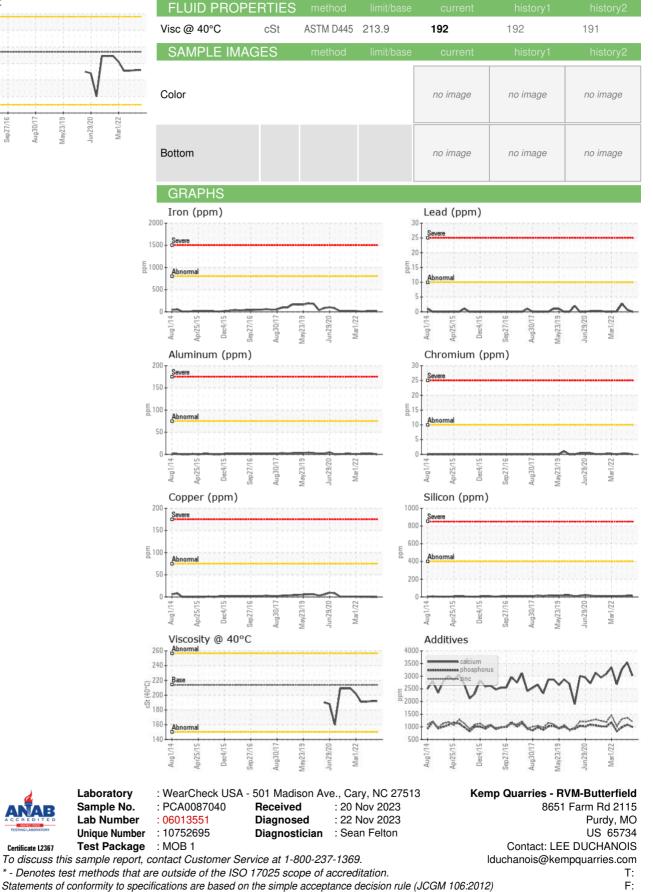
Fluid Condition

The condition of the oil is acceptable for the time in service.



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Certificate L2367