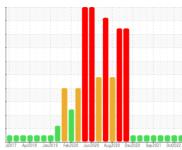


### **OIL ANALYSIS REPORT**



Sample Rating Trend





JOHN DEERE 744K LOADER 600-164 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (9 GAL)

#### SAMPLE INFORMATION method PCA0082147 PCA0106843 PCA0070800 Sample Number **Client Info** 10 Jul 2023 Sample Date Client Info 04 Oct 2023 14 Oct 2022 Machine Age hrs Client Info 1561 14524 13002 Oil Age hrs Client Info 500 510 502 Oil Changed Changed N/A **Client Info** Changed Sample Status NORMAL NORMAL NORMAL CONTAMINATION Fuel WC Method >2.1 <1.0 <1.0 <1.0 Glycol WC Method NEG NEG NEG WEAR METALS 8 Iron ASTM D5185m >51 10 9 ppm Chromium ppm ASTM D5185m >11 <1 <1 <1 Nickel ASTM D5185m 0 0 ppm >5 <1 0 Titanium ppm ASTM D5185m <1 <1 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ASTM D5185m >31 2 0 ppm 1 ASTM D5185m >26 0 0 Lead ppm <1 Copper ASTM D5185m >26 <1 <1 <1 ppm 0 0 Tin ppm ASTM D5185m >4 <1 Vanadium ASTM D5185m 0 ppm <1 <1 Cadmium ASTM D5185m <1 0 0 ppm **ADDITIVES** 8 3 0 0 Boron ppm ASTM D5185m Barium ppm ASTM D5185m 0 <1 0 0 ASTM D5185m 60 65 62 59 Molybdenum ppm Manganese ASTM D5185m 0 0 0 <1 ppm 1010 1025 Magnesium ppm ASTM D5185m 1023 930 Calcium ASTM D5185m 1070 1097 1146 1115 ppm Phosphorus ppm ASTM D5185m 1150 1091 1071 996 Zinc ASTM D5185m 1270 1339 1268 1189 ppm Sulfur 2060 3621 3530 ppm ASTM D5185m 3894 CONTAMINANTS Silicon ASTM D5185m >22 2 2 2 ppm 3 2 2 Sodium ASTM D5185m >31 ppm ASTM D5185m >20 3 0 Potassium 0 ppm **INFRA-RED** Soot % % \*ASTM D7844 >3 0.5 0.4 0.5 Nitration Abs/cm \*ASTM D7624 >20 6.7 6.4 7.4 Sulfation Abs/.1mm \*ASTM D7415 >30 19.1 18.5 20.6 FLUID DEGRADATION method >25 14.7 14.1 15.8 Oxidation Abs/.1mm \*ASTM D7414 Base Number (BN) mg KOH/g ASTM D2896 9.8 8.9 8.9 10.1

# DIAGNOSIS

Recommendation Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

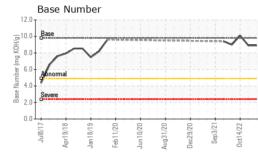
There is no indication of any contamination in the oil.

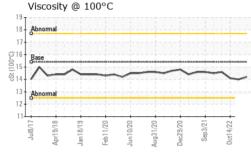
### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



# **OIL ANALYSIS REPORT**







Certificate L2367