

OIL ANALYSIS REPORT

Sample Rating Trend DIRT



Recommendation

A Wear

Contamination

Fluid Condition

of contaminants.

KEMP QUARRIES / MUSKOGEE SAND WL042

Component Front Differential

MOBIL MOBILTRANS HD 50 (--- GAL)

SAMPLE INFORMATION method PCA0087103 PCA0084619 PCA0070529 Sample Number **Client Info** We advise that you check all areas where dirt can Sample Date Client Info 11 Jul 2023 23 May 2023 29 Dec 2022 enter the system. The oil change at the time of Machine Age hrs Client Info 32072 31670 31010 sampling has been noted. We recommend an early Oil Age hrs Client Info 32072 1720 1060 resample to monitor this condition. (Customer Oil Changed Client Info Changed Not Changd Not Changd Sample Comment: PM-4 changed fluid) SEVERE Sample Status ABNORMAL NORMAL Bearing and/or gear wear is indicated. WEAR METALS 133 ASTM D5185m >500 **6** 505 75 Iron ppm Elemental levels of silicon (Si) and aluminum (Al) Chromium ASTM D5185m >3 2 ppm <1 <1 indicate alumina-silicate (coarse dirt) ingress. 2 Nickel ppm ASTM D5185m >3 <1 0 ASTM D5185m >2 Titanium 2 2 0 ppm The oil is no longer serviceable due to the presence 0 0 Silver ppm ASTM D5185m >2 0 Aluminum ASTM D5185m >30 36 23 2 ppm Lead ASTM D5185m >13 11 2 <1 ppm ASTM D5185m 21 4 >103 114 Copper ppm Tin ppm ASTM D5185m >5 6 <1 0 Vanadium ASTM D5185m 0 0 0 ppm Cadmium ppm ASTM D5185m 0 0 0 **ADDITIVES** 0 ASTM D5185m 4 <1 Boron ppm Barium ppm ASTM D5185m 0 0 0 2 2 Molybdenum ppm ASTM D5185m 1 6 2 Manganese ppm ASTM D5185m <1 ASTM D5185m 25 18 16 Magnesium ppm 2534 2573 2631 Calcium ppm ASTM D5185m Phosphorus ppm ASTM D5185m 961 960 940 Zinc ASTM D5185m 1162 1168 1149 ppm Sulfur 4656 4218 ppm ASTM D5185m 4784 CONTAMINANTS Silicon ASTM D5185m >100 219 115 20 ppm 0 0 Sodium ppm ASTM D5185m 2 Potassium ASTM D5185m >20 13 9 2 ppm VISUAL NONE White Metal scalar *Visual NONE NONE VLITE Yellow Metal *Visual NONE NONE NONE NONE scalar Precipitate scalar *Visual NONE NONE NONE NONE NONE *Visual MODER NONE Silt scalar NONE Debris scalar *Visual NONE NONE NONE VLITE Sand/Dirt scalar *Visual NONE NONE NONE NONE *Visual NORML NORML NORML NORML Appearance scalar Odor *Visual NORML NORML NORML NORML scalar *Visual **Emulsified Water** NEG NEG scalar >.2 NEG NEG NEG Free Water scalar *Visual NEG **FLUID PROPERTIES**

ASTM D445

195

cSt

Visc @ 40°C

210

212

220



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