

OIL ANALYSIS REPORT

Sample Rating Trend



CRANE 12

Component Auxiliary Hoist

PETRO CANADA ENDURATEX EP 220 (--- GAL)

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| , | | | Sep2022 | Aug2023 | | |
|------------------|----------|-------------|------------|-------------|------------------|---------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PCA0101535 | PCA0077454 | |
| Sample Date | | Client Info | | 28 Aug 2023 | 22 Sep 2022 | |
| Machine Age | hrs | Client Info | | 0 | 0 | |
| Oil Age | hrs | Client Info | | 0 | 0 | |
| Oil Changed | | Client Info | | N/A | Not Changd | |
| Sample Status | | | | NORMAL | NORMAL | |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| PQ | | ASTM D8184 | | 19 | 8 | |
| Iron | ppm | ASTM D5185m | >20 | 2 | 1 | |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | |
| Nickel | ppm | ASTM D5185m | >20 | <1 | 0 | |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | |
| Silver | ppm | ASTM D5185m | | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | 0 | |
| Lead | ppm | ASTM D5185m | >20 | <1 | <1 | |
| Copper | ppm | ASTM D5185m | >20 | <1 | <1 | |
| Tin | ppm | ASTM D5185m | >20 | 0 | 0 | |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 60 | 0 | 1 | |
| Barium | ppm | ASTM D5185m | 0 | 35 | 17 | |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 | |
| Manganese | ppm | ASTM D5185m | 0 | 0 | 0 | |
| Magnesium | ppm | ASTM D5185m | 0 | <1 | <1 | |
| Calcium | ppm | ASTM D5185m | 0 | 12 | 12 | |
| Phosphorus | ppm | ASTM D5185m | 270 | 250 | 240 | |
| Zinc | ppm | ASTM D5185m | 0 | 9 | 5 | |
| Sulfur | ppm | ASTM D5185m | 11200 | 12646 | 12948 | |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | 6 | 5 | |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | |
| Potassium | ppm | ASTM D5185m | >20 | 5 | 5 | |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.40 | 0.70 | 0.73 | |
| VISUAL | | method | limit/base | current | history1 | history2 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | |
| Silt | scalar | *Visual | NONE | NONE | NONE | |
| Debris | scalar | *Visual | NONE | NONE | NONE | |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | |
| Appearance | scalar | *Visual | NORML | NORML | NORML | |
| Odor | scalar | *Visual | NORML | NORML | NORML | |
| Emulsified Water | scalar | *Visual | >0.05 | NEG | NEG | |
| Free Water | scalar | *Visual | | NEG | ocatione GBRAD E | LLIS - SDITER |
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