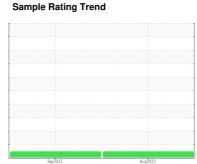


OIL ANALYSIS REPORT



NORMAL



Machine Id CRANE 6

Main Hoist

PETRO CANADA ENDURATEX EP 220 (---

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

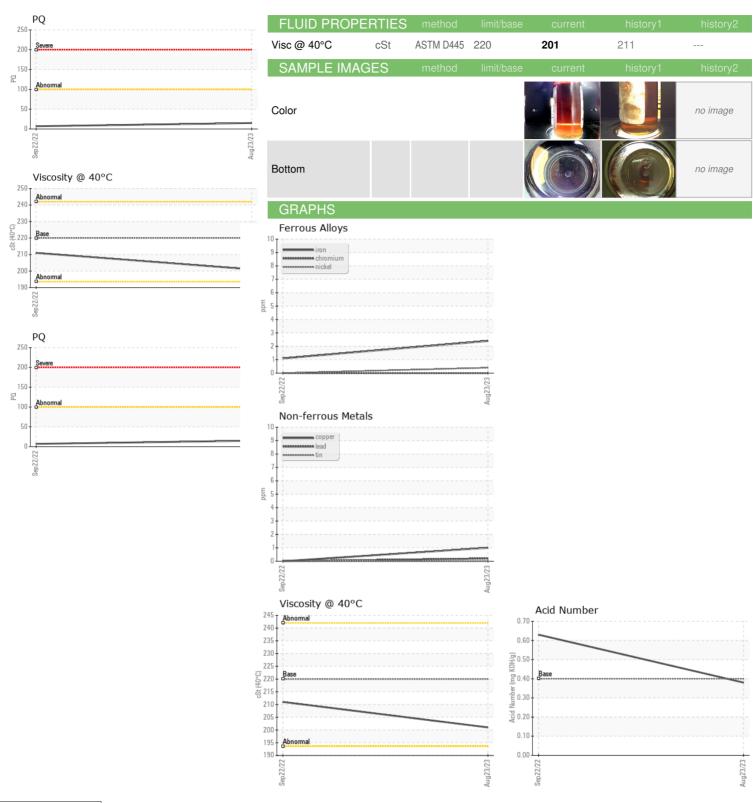
Fluid Condition

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

| GAL) | | | Sep 2022 | Aug ² 023 | | |
|------------------|-----------|---------------|-------------|----------------------|-------------------|----------|
| SAMPLE INFOR | RMATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PCA0101526 | PCA0080321 | |
| Sample Date | | Client Info | | 23 Aug 2023 | 22 Sep 2022 | |
| Machine Age | hrs | Client Info | | 0 | 0 | |
| Oil Age | hrs | Client Info | | 0 | 0 | |
| Oil Changed | 1113 | Client Info | | N/A | Not Changd | |
| Sample Status | | Ciletit iiilo | | NORMAL | NORMAL | |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| PQ | _0 | ASTM D8184 | IIIIIV DASC | 15 | 7 | |
| | 12 12 122 | | . 20 | 2 | 1 | |
| ron | ppm | ASTM D5185m | | _ | | |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | |
| Nickel | ppm | ASTM D5185m | >20 | <1 | 0 | |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | |
| Silver | ppm | ASTM D5185m | | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | 0 | |
| _ead | ppm | ASTM D5185m | >20 | <1 | 0 | |
| Copper | ppm | ASTM D5185m | >20 | 1 | 0 | |
| Γin | ppm | ASTM D5185m | >20 | 0 | 0 | |
| √anadium | ppm | ASTM D5185m | | 0 | 0 | |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 60 | <1 | 22 | |
| Barium | ppm | ASTM D5185m | 0 | 9 | 4 | |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 | |
| Manganese | ppm | ASTM D5185m | 0 | 0 | 0 | |
| Magnesium | ppm | ASTM D5185m | 0 | 1 | 0 | |
| Calcium | ppm | ASTM D5185m | 0 | 28 | 24 | |
| Phosphorus | ppm | ASTM D5185m | 270 | 234 | 248 | |
| Zinc | ppm | | 0 | 10 | 10 | |
| Sulfur | ppm | ASTM D5185m | 11200 | 13662 | 8182 | |
| CONTAMINAN | | | | | | histow.0 |
| | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | | >15 | 18 | 10 | |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.40 | 0.38 | 0.63 | |
| 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 | ×0.00 | NEG | ocation GBRAD I | |
| i ice vvalei | Scaldi | visual | | NEG | COUNTY INDIVIDUAL | - ODITE |



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number

: 05937374 Unique Number : 10622645

: PCA0101526 Test Package : PLANT

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Aug 2023 : 30 Aug 2023 Diagnosed

Diagnostician : Don Baldridge

SDI - Steel DynamicsInc. - Heartland 455 West Industrial Drive Terre Haute, IN

US 47802 Contact: BRAD ELLIS

brad.ellis@steeldynamics.com T:

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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