

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Galv Line [Galv Line] 635035-ENTRY LOOPER WINCH

Gearbox

PETRO CANADA ENDURATEX EP 220 (---

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

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) | | Aug2021 Oc | t2021 Jan2022 Apr2022 | Jul2022 Oct2022 Jan2023 Apr20 | 23 Jui2023 | |
|------------------|----------|-------------|-----------------------|-------------------------------|-------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PCA0095500 | PCA0089429 | PCA0081761 |
| Sample Date | | Client Info | | 01 Jul 2023 | 23 Apr 2023 | 01 Jan 2023 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | Not Changd | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR METAL | .S | method | limit/base | current | history1 | history2 |
| PQ | | ASTM D8184 | | 12 | | 8 |
| Iron | ppm | ASTM D5185m | >200 | 6 | 6 | 5 |
| Chromium | ppm | ASTM D5185m | >15 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >15 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >100 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >200 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >25 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 60 | 8 | 13 | 12 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | 1 | <1 | 1 |
| Calcium | ppm | ASTM D5185m | 0 | 17 | 18 | 19 |
| Phosphorus | ppm | ASTM D5185m | 270 | 211 | 206 | 208 |
| Zinc | ppm | ASTM D5185m | 0 | 20 | 18 | 20 |
| Sulfur | ppm | ASTM D5185m | 11200 | 7440 | 7287 | 7818 |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >50 | 20 | 22 | 22 |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | <1 |
| FLUID DEGRAI | NOITAC | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.40 | 0.66 | 0.52 | 0.55 |
| VISUAL | | method | limit/base | current | history1 | history2 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | LIGHT |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |
| E 147 . | | 43 P 1 | | NEO | | TILINGEDITE |

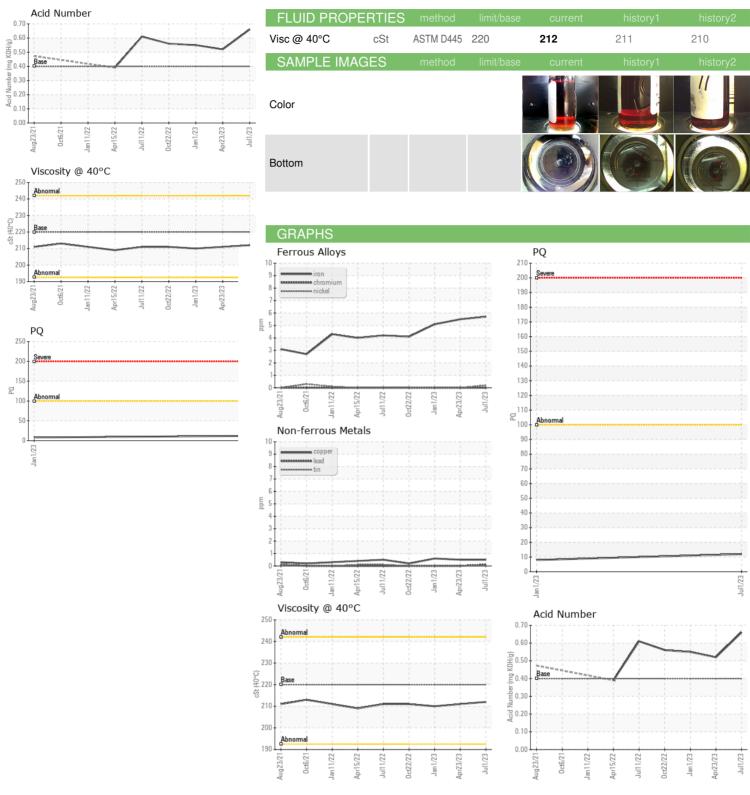
scalar *Visual

NEG

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OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 05929788 : 10615059 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0095500 Received : 21 Aug 2023

: 22 Aug 2023 Diagnosed Diagnostician : Wes Davis

SDI - Steel DynamicsInc. - Heartland

455 West Industrial Drive Terre Haute, IN US 47802

Contact: BRAD ELLIS brad.ellis@steeldynamics.com

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

Contact/Location: BRAD ELLIS - SDITER

T:

F: