

OIL ANALYSIS REPORT

Pickle Line Machine Id [Pickle Line] 580045-CHOPPER KNIFE GB - OPER. SIDE Component

Non-Drive End Gearbox

PETRO CANADA ENDURATEX EP 220 (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

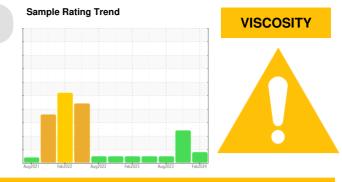
All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.



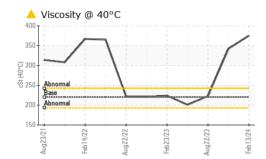
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|------------------|---------------|-------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | PCA0113007 | PCA0107673 | PCA0101455 |
| Sample Date | | Client Info | | 13 Feb 2024 | 26 Nov 2023 | 22 Aug 2023 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | ABNORMAL | ABNORMAL | NORMAL |
| CONTAMINATI | ON | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| WEAR METALS | S | method | limit/base | current | history1 | history2 |
| PQ | | ASTM D8184 | | 158 | | 12 |
| Iron | ppm | ASTM D5185m | >200 | 102 | 66 | 5 |
| Chromium | ppm | ASTM D5185m | >15 | 4 | 1 | 0 |
| Nickel | ppm | ASTM D5185m | >15 | 2 | 1 | 0 |
| Titanium | ppm | ASTM D5185m | | 1 | 1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 22 | 1 5 | <1 |
| Lead | ppm | ASTM D5185m | >100 | 1 | 2 | 0 |
| Copper | ppm | ASTM D5185m | >200 | 4 | 6 | <1 |
| Tin | ppm | ASTM D5185m | >25 | 0 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 60 | 36 | 30 | 73 |
| Barium | ppm | ASTM D5185m | 0 | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | 0 | 1 | 1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | <1 | 1 | <1 |
| Calcium | ppm | ASTM D5185m | 0 | 99 | 104 | 2 |
| Phosphorus | ppm | ASTM D5185m | 270 | 374 | 352 | 282 |
| Zinc | ppm | ASTM D5185m | 0 | 137 | 121 | 0 |
| Sulfur | ppm | ASTM D5185m | 11200 | 6442 | 6875 | 8170 |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >50 | 45 | 41 | 5 |
| Sodium | ppm | ASTM D5185m | | 1 | 0 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 1 | 1 |
| FLUID DEGRAD | ATION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.40 | 0.31 | 0.35 | 0.45 |

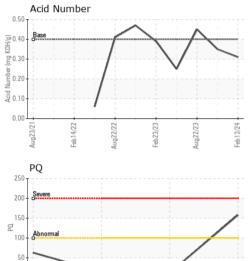


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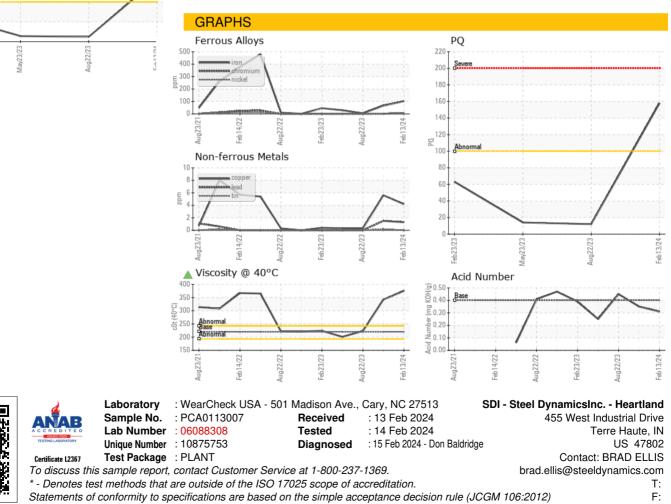
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| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|-------------|--|---|
| White Metal | scalar | *Visual | NONE | NONE | A HEAVY | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | A MODER | 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 | 0.2% | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPE | RTIES | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D445 | 220 | 3 75 | ▲ 342.4 | 223 |
| SAMPLE IMAG | ES | method | limit/base | current | history1 | history2 |
| Color | | | | | Pickety, Socias, Cercipida Perio Cir Basic III | 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 |
| | | | | 100 | | |

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Contact/Location: BRAD ELLIS - SDITER