

OIL ANALYSIS REPORT

Sample Rating Trend





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

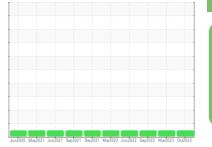
All component wear rates are normal.

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.



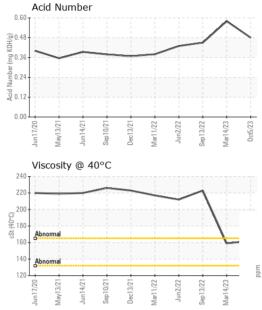


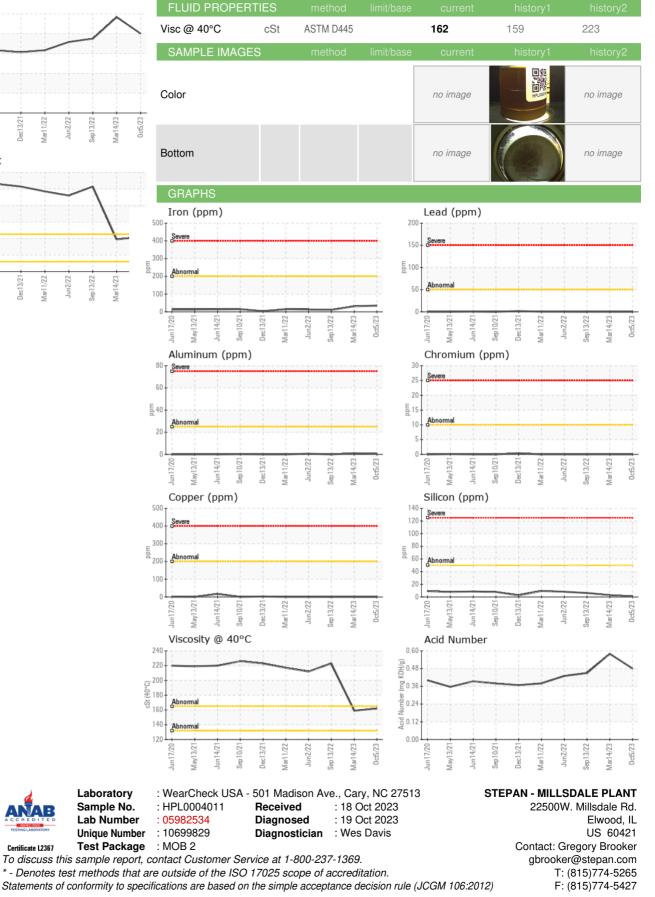
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|---|--------------------------------------|-------------------------------|---------------|-----------------------|-----------------------|-----------------------|
| Sample Number | | Client Info | | HPL0004011 | HPL0002188 | HPL0001685 |
| Sample Date | | Client Info | | 05 Oct 2023 | 14 Mar 2023 | 13 Sep 2022 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >200 | 35 | 31 | 11 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | <1 | 1 | 0 |
| Lead | ppm | ASTM D5185m | >50 | 0 | 0 | 0 |
| | | ASTM D5185m | >200 | 0 | 0 | 0 |
| Copper Tin | ppm | ASTM D5185m | >200 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | ×10 | 0 | 0 | 0 |
| Cadmium | ppm ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | ppm | method | limit/base | current | history1 | history2 |
| Boron | 0000 | ASTM D5185m | intil Dase | 0 | 0 | 0 |
| | ppm | | | ں <1 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | | | |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | | 4 | 2 | 0 |
| Calcium | ppm | ASTM D5185m | | 10 | 7 | 0 |
| Phosphorus | ppm | ASTM D5185m | | 178 | 176 | 342 |
| Zinc | ppm | ASTM D5185m | | 108 | 85 | 23 |
| Sulfur | ppm | ASTM D5185m | | 22168 | 21775 | 6560 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >50 | 1 | 3 | 6 |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | <1 | 0 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.48 | 0.58 | 0.45 |
| VISUAL | | method | limit/base | current | history1 | history2 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| D 1 11 1 | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | 304141 | | | | | |
| Precipitate Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| • | | *Visual *Visual | NONE NONE | NONE NONE | NONE NONE | NONE |
| Silt | scalar | | | | | |
| Silt Debris | scalar scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt Debris Sand/Dirt | scalar scalar scalar | *Visual *Visual | NONE NONE | NONE NONE | NONE NONE | NONE NONE |
| Silt Debris Sand/Dirt Appearance | scalar scalar scalar scalar | *Visual *Visual *Visual | NONE NORML | NONE NONE NORML | NONE NONE NORML | NONE NONE NORML |

Contact/Location: Gregory Brooker - STEELW



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Certificate L2367

Contact/Location: Gregory Brooker - STEELW