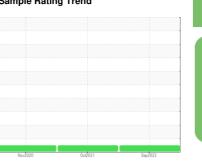


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



ACECO RWSB-S 10061375 - TROLLEY EAST (S/N 3219)

Component

Gearbox

SHELL OMALA S2 GX 220 (--- GAL)

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.

| | | No | v2020 | Oct2021 Sep20 | 122 | |
|------------------|----------|-------------|------------|---------------|-------------|-------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0657477 | WC0456459 | WC0495726 |
| Sample Date | | Client Info | | 27 Sep 2022 | 05 Oct 2021 | 18 Nov 2020 |
| Machine Age | mths | Client Info | | 0 | 0 | 0 |
| Oil Age | mths | Client Info | | 36 | 24 | 13 |
| 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 | <1 | <1 | 0 |
| Chromium | ppm | ASTM D5185m | >15 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >15 | 0 | 0 | 1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 0 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >100 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >200 | 0 | 0 | 0 |
| Tin | ppm | ASTM D5185m | >25 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185m | | | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 6.2 | <1 | 10 | 2 |
| Barium | ppm | ASTM D5185m | 0.0 | 4 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 0 | 1 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | | 5 | 4 | 0 |
| Phosphorus | ppm | ASTM D5185m | 290 | 269 | 285 | 258 |
| Zinc | ppm | ASTM D5185m | 3.8 | 12 | 8 | 3 |
| Sulfur | ppm | ASTM D5185m | 8167 | 11473 | 9513 | 8794 |
| CONTAMINANTS | method | limit/base | current | history1 | history2 | |
| Silicon | ppm | ASTM D5185m | >50 | <1 | <1 | <1 |
| Sodium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| FLUID DEGRADA | ATION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.39 | 0.402 | 0.364 |
| VISUAL | | method | limit/base | current | history1 | history2 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | 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 | 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 |
| | | | | | | |

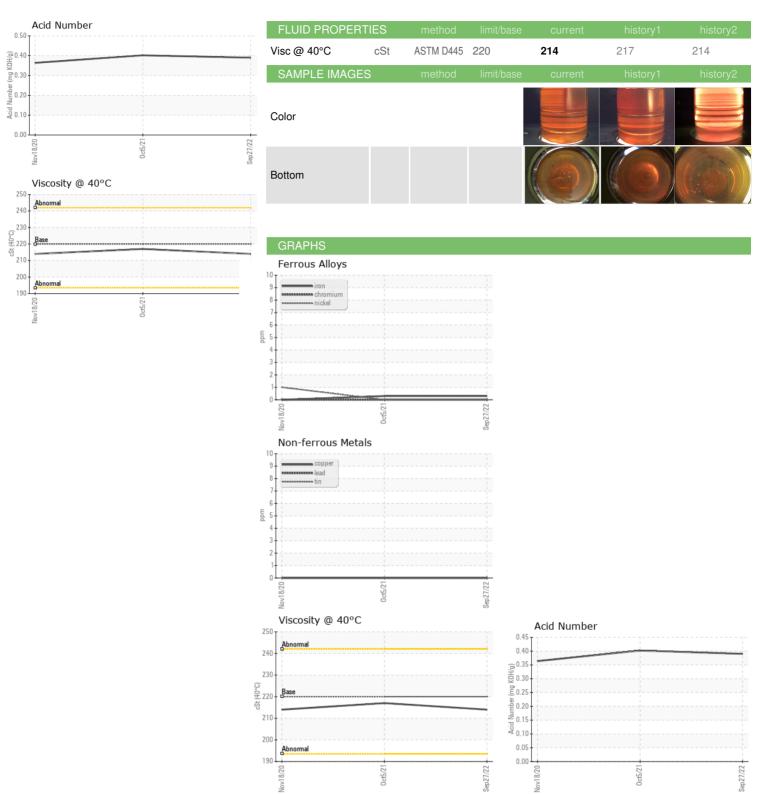
scalar *Visual

Serwice:Manager - FNE SCHNY

NEG



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number Unique Number : 10188985

: 05674414

: WC0657477 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Oct 2022

: 25 Oct 2022 Diagnosed Diagnostician : Wes Davis

FLUOR MARINE PROPULSION LLC

2401 RIVER RD SCHENECTADY, NY US 12309

Contact: Service Manager

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)

T:

F: