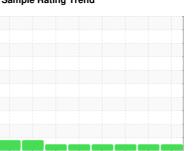


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

GFP2 - UNIT 4 GOVERNOR (S/N 720060)

Component

Governor System

SHELL TURBO T ISO 46 (4100 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid. (Customer Sample Comment: Unsure date)

Wear

Component wear rates appear to be normal (unconfirmed).

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

| Jui2014 Jui2015 Sep2017 Nev2018 Sep2020 Sep2021 Apr2023 Nev2023 | | | | | | |
|---|--------|---------------|------------|-------------|-------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0827903 | WC0701194 | WC0630821 |
| Sample Date | | Client Info | | 08 Nov 2023 | 01 Apr 2023 | 13 Sep 2021 |
| Machine Age | days | Client Info | | 0 | 0 | 0 |
| Oil Age | days | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINATIC | N | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185(m) | >50 | 0 | <1 | <1 |
| Chromium | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >10 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >3 | 0 | 0 | <1 |
| Lead | ppm | ASTM D5185(m) | >75 | <1 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >15 | <1 | 0 | <1 |
| Tin | ppm | ASTM D5185(m) | >55 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) | >5 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185(m) | 4.0 | <1 | 0 | 0 |
| Barium | ppm | ASTM D5185(m) | 0 | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 0 | 0 | 0 | <1 |
| Calcium | ppm | ASTM D5185(m) | 0 | <1 | 0 | <1 |
| Phosphorus | ppm | ASTM D5185(m) | 2.1 | 1 | 0 | 1 |
| Zinc | ppm | ASTM D5185(m) | 2.0 | 2 | 2 | 2 |
| Sulfur | ppm | ASTM D5185(m) | 1300 | 63 | 50 | 57 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| CONTAMINANT | S | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | >8 | <1 | <1 | <1 |
| Sodium | ppm | ASTM D5185(m) | | <1 | <1 | 0 |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | 0 | <1 |
| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >20000 | 1477 | 890 | 14344 |
| Particles >6µm | | ASTM D7647 | >5000 | 360 | 203 | 3044 |
| Particles >14μm | | ASTM D7647 | >640 | 29 | 15 | 182 |
| Particles >21μm | | ASTM D7647 | >160 | 7 | 4 | 46 |
| Particles >38μm | | ASTM D7647 | >40 | 0 | 0 | 3 |
| Particles >71µm | | ASTM D7647 | >10 | 0 | 0 | 0 |

Oil Cleanliness

18/16/12

ISO 4406 (c) >21/19/16

21/19/15



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

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

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Nalcor Energy - Grand Falls-Windsor : 02603212 : 5696297

: WC0827903

Recieved Diagnosed

: 14 Dec 2023 : 15 Dec 2023 Diagnostician

: Kevin Marson Test Package : IND 2 (Additional Tests: TAN Man)

25 Hardy Avenue Grand Falls-Windsor, NL CA A2A 2P8 Contact: Phillip Winsor philipwinsor@nlh.nl.ca T: (709)486-8714

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.