

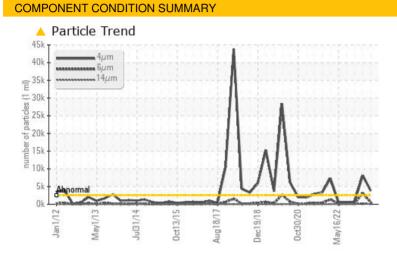
Hydraulic System

Area SAB1

Component

PROBLEM SUMMARY

Sample Rating Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

SAB1 G8 Governor Sump

ESSO TERESSO ISO 46 (1600 LTR)

| PROBLEMATIC TEST RESULTS | | | | | | | | |
|--------------------------|--------------|-----------|---------------|---------------|----------|--|--|--|
| Sample Status | | | ATTENTION | ABNORMAL | NORMAL | | | |
| Particles >4µm | ASTM D7647 | >2500 | A 3798 | A 8109 | 627 | | | |
| Oil Cleanliness | ISO 4406 (c) | >18/16/13 | <u> </u> | 🔺 20/19/15 | 16/14/10 | | | |
| PrtFilter | | | | no image | no image | | | |

Customer Id: ONTQUE Sample No.: WC0828630 Lab Number: 02578787 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 <u>gloria.gonzalez@wearcheck.com</u>

| RECOMMENDED ACTIONS | | | | | | |
|---------------------|--------|------|---------|---|--|--|
| Action | Status | Date | Done By | Description | | |
| Change Filter | | | ? | We recommend you service the filters on this component. | | |

HISTORICAL DIAGNOSIS

27 Mar 2023 Diag: Kevin Marson



We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.All component wear rates are normal. Oil Cleanliness are abnormally high. Particles >14 μ m are abnormally high. Particles >21 μ m are abnormally high. Particles >4 μ m are abnormally high. Particles >6 μ m are abnormally high. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



view report

14 Nov 2022 Diag: Kevin Marson



Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



27 Sep 2022 Diag: Kevin Marson

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





Report Id: ONTQUE [WCAMIS] 02578787 (Generated: 08/30/2023 07:24:34) Rev: 1



OIL ANALYSIS REPORT

Area SAB1 SAB1 G8 Governor Sump Component

Hydraulic System ESSO TERESSO ISO 46 (1600 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

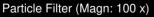
All component wear rates are normal.

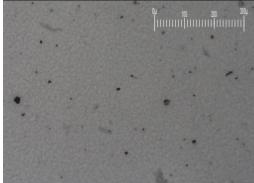
Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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





Report Id: ONTQUE [WCAMIS] 02578787 (Generated: 08/30/2023

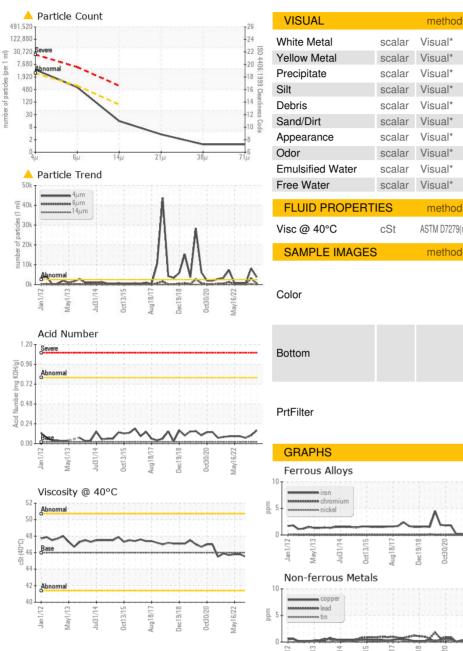
ISO

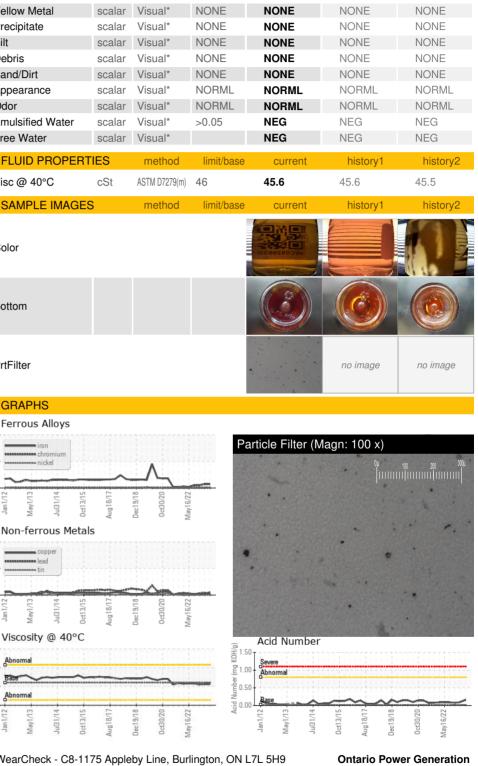
Sample Rating Trend

| SAMPLE INFORM | ATION | method | limit/base | current | history1 | history2 |
|------------------|----------|---------------|------------|-------------------|---------------|---------------|
| Sample Number | | Client Info | | WC0828630 | WC0642882 | WC0676690 |
| Sample Date | | Client Info | | 27 Aug 2023 | 27 Mar 2023 | 14 Nov 2022 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | 110 | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | ATTENTION | ABNORMAL | NORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| | | | | | | |
| Iron | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Chromium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >20 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | | <1 | 0 | 0 |
| Lead | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| 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) | 0 | <1 | <1 | <1 |
| Barium | ppm | ASTM D5185(m) | | 0 | 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 | <1 | 0 |
| Calcium | ppm | ASTM D5185(m) | 0 | <1 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185(m) | 2.4 | 1 | <1 | <1 |
| Zinc | ppm | ASTM D5185(m) | 0 | 2 | <1 | <1 |
| Sulfur | ppm | ASTM D5185(m) | | 835 | 875 | 815 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | >15 | <1 | <1 | 0 |
| Sodium | ppm | ASTM D5185(m) | | <1 | 0 | 0 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | 0 |
| FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >2500 | A 3798 | A 8109 | 627 |
| Particles >6µm | | ASTM D7647 | >640 | 542 | A 3114 | 158 |
| Particles >14µm | | ASTM D7647 | >80 | 13 | <u> </u> | 10 |
| Particles >21µm | | ASTM D7647 | >20 | 3 | 6 6 | 2 |
| Particles >38µm | | ASTM D7647 | >4 | 1 | 1 | 0 |
| Particles >71μm | | ASTM D7647 | >3 | 1 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >18/16/13 | A 19/16/11 | ▲ 20/19/15 | 16/14/10 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.02 | 0.16 | 0.10 | 0.07 |
| 24:34) Rev: 1 | | | | | | Submitted By: |



OIL ANALYSIS REPORT





limit/base

NONE

current

VLITE

history1

NONE

history2

NONE

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received NIAGARA PLANT GROUP,, 14000 NIAGARA PKWY : WC0828630 : 28 Aug 2023 Lab Number : 30 Aug 2023 : 02578787 Diagnosed NIAGARA ON THE LAKE, ON ISO 17025:2017 Diagnostician : Kevin Marson Accredited CA LOS 1J0 Unique Number : 5631847 Laboratory Test Package : IND 2 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, PrtFilter, TAN Man) Contact: Michael Brochu To discuss this sample report, contact Customer Service at 1-800-268-2131. mike.brochu@opg.com T: (905)357-0322 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (905)374-5466

Validity of results and interpretation are based on the sample and information as supplied.

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