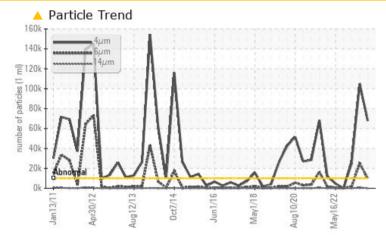
PROBLEM SUMMARY

Area SAB1 SAB1 G8 Component Turbine Bearing Fluid ESSO TERESSO ISO 46 (150 LTR)

IEAD

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

| PROBLEMATIC TEST RESULTS | | | | | | | |
|--------------------------|--------------|-----------|---------------|----------------|------------------|--|--|
| Sample Status | | | ABNORMAL | SEVERE | ABNORMAL | | |
| Particles >4µm | ASTM D7647 | >10000 | <u> </u> | 105004 | A 24923 | | |
| Particles >6µm | ASTM D7647 | >1300 | 6 9744 | e 25128 | 1 430 | | |
| Oil Cleanliness | ISO 4406 (c) | >20/17/14 | <u> </u> | • 24/22/16 | 2 2/18/11 | | |

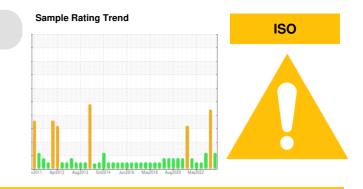
Customer Id: ONTQUE Sample No.: WC0828628 Lab Number: 02578759 Test Package: IND 2



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. | | | |
| Resample | | | ? | We recommend an early resample to monitor this condition. | | | |

HISTORICAL DIAGNOSIS



27 Mar 2023 Diag: Kevin Marson

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.All component wear rates are normal. Particles >6 μ m are severely high. Particles >4 μ m are severely high. Oil Cleanliness are severely high. Particles >14 μ m are abnormally high. Particles >21 μ m are notably high. The system cleanliness code is much higher than 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



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Particles >4 μ m and oil cleanliness are abnormally high. Particles >6 μ m are notably 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.

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.

view report





OIL ANALYSIS REPORT





DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

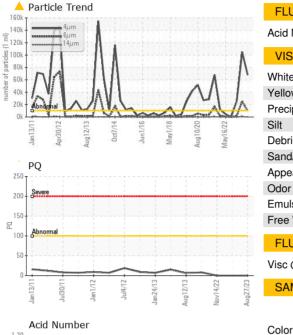
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

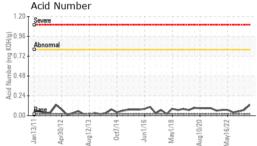


| ATION | method Client Info | limit/base | current WC0828628 | history1 WC0642880 | history2 WC0587307 |
|-------|---|--|--|---|--|
| | | | WC0828628 | WC0642880 | WC0587307 |
| | Client Info | | | | 1100307307 |
| | Client Info | | 27 Aug 2023 | 27 Mar 2023 | 14 Nov 2022 |
| hrs | Client Info | | 0 | 0 | 0 |
| hrs | Client Info | | 0 | 0 | 0 |
| | Client Info | | N/A | N/A | N/A |
| | | | ABNORMAL | SEVERE | ABNORMAL |
| | method | limit/base | current | history1 | history2 |
| | ASTM D8184* | | 0 | 0 | 0 |
| ppm | ASTM D5185(m) | >7 | 2 | 2 | 2 |
| ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| ppm | ASTM D5185(m) | >2 | <1 | <1 | 0 |
| ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| ppm | ASTM D5185(m) | >2 | <1 | 0 | 0 |
| ppm | ASTM D5185(m) | >33 | 2 | 3 | 2 |
| ppm | ASTM D5185(m) | >3 | 1 | 1 | 1 |
| ppm | ASTM D5185(m) | >6 | 0 | 0 | 0 |
| ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| | method | limit/base | current | history1 | history2 |
| ppm | ASTM D5185(m) | 0 | 0 | <1 | <1 |
| ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| ppm | ASTM D5185(m) | | 0 | <1 | 0 |
| ppm | ASTM D5185(m) | 0 | <1 | <1 | 0 |
| ppm | ASTM D5185(m) | 0 | 1 | 0 | <1 |
| ppm | ASTM D5185(m) | 2.4 | 5 | 4 | 5 |
| ppm | ASTM D5185(m) | 0 | 4 | 3 | 3 |
| ppm | ASTM D5185(m) | | 693 | 730 | 720 |
| ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| | method | limit/base | current | history1 | history2 |
| ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| ESS | method | limit/base | current | history1 | history2 |
| | ASTM D7647 | >10000 | 67904 | 105004 | ▲ 24923 |
| | ASTM D7647 | >1300 | <u> </u> | 25128 | 1 430 |
| | ASTM D7647 | >160 | 47 | 5 92 | 13 |
| | | >40 | 4 | ▲ 80 | 3 |
| | ASTM D7647 | 240 | | | |
| | ASTM D7647 ASTM D7647 | >10 | 1 | 0 | 1 |
| | | >10 | | | 1 0 |
| | ppm 1 ppm 2 ppm 2 ppm 3 ppm 4 ppm 4 | Client Info Rethod ASTM D8184* ppm ASTM D5185(m) ppm ASTM D5185(m) <th>Client InfoClient InfomethodASTM DS185(m)ASTM DS185(m)PpmASTM DS185(m)Ppm<</th> <td>Client InfoN/A ABNORMALmethodlimit/basecurrentASTM D8184*0ppmASTM D5185(m)>72ppmASTM D5185(m)>20ppmASTM D5185(m)>2<1</td> ppmASTM D5185(m)>2<1 | Client InfoClient InfomethodASTM DS185(m)ASTM DS185(m)PpmASTM DS185(m)Ppm< | Client InfoN/A ABNORMALmethodlimit/basecurrentASTM D8184*0ppmASTM D5185(m)>72ppmASTM D5185(m)>20ppmASTM D5185(m)>2<1 | NA NA N/A Client Info N/A N/A ABNORMAL SEVERE method limit/base current history1 ASTM D8184* 0 0 ppm ASTM D5185(m) >7 2 2 ppm ASTM D5185(m) >2 0 0 ppm ASTM D5185(m) >2 2 1 ppm ASTM D5185(m) >2 2 1 ppm ASTM D5185(m) >2 2 1 ppm ASTM D5185(m) >2 2 3 ppm ASTM D5185(m) >3 1 1 ppm ASTM D5185(m) >6 0 0 ppm ASTM D5185(m) >6 0 0 ppm ASTM D5185(m) >6 0 0 ppm ASTM D5185(m) 0 0 0 ppm ASTM D5185(m) 0 0 1 ppm ASTM D5185(m) 0 <1 |



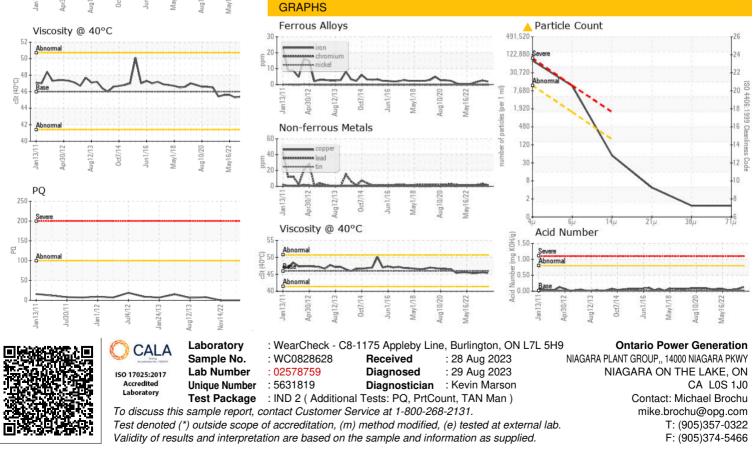
OIL ANALYSIS REPORT





| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|---------------|------------|---------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.02 | 0.13 | 0.07 | 0.05 |
| 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 | VLITE | 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* | >2 | NEG | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG | NEG |
| FLUID PROPERT | IES | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 46 | 45.4 | 45.6 | 45.4 |
| SAMPLE IMAGES | S | method | limit/base | current | history1 | history2 |
| | | | | | | |





Bottom

Report Id: ONTQUE [WCAMIS] 02578759 (Generated: 08/29/2023 11:09:23) Rev: 1