

0ct17/17

Dec10/19

Jun7/22

Nov3/15

Mar24/14

RECOMMENDATION

Mar21/

Sep 19/08

80k

1 mlper of particles (1 ml) 6 0k 4 0k 3 0k 2 0k

20k

10k 0k 90

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

Mar9/11

| PROBLEMATIC TEST RESULTS | | | | | | | |
|--------------------------|-----------------------|----------------|----------------|------------|--|--|--|
| Sample Status | | ATTENTION | ABNORMAL | ABNORMAL | | | |
| Particles >4µm | ASTM D7647 >10000 | A 11660 | 4 24406 | <u> </u> | | | |
| Oil Cleanliness | ISO 4406 (c) >20/18/1 | 4 🔺 21/17/13 | 🔺 22/18/13 | 🔺 22/19/14 | | | |

Customer Id: NEWSTJ Sample No.: WC0455721 Lab Number: 02563203 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 gloria.gonzalez@wearcheck.com

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

HISTORICAL DIAGNOSIS



05 Dec 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 $>4\mu$ m and oil cleanliness are abnormally high. 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

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

ISO

21 Oct 2021 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 $>4\mu$ m are abnormally high. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Area [199030] Machine Id MOP G1 UGBR/THBR Component

Bearing

ESSO TERESSO ISO 68 (727 LTR)

DIAGNOSIS

Recommendation

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

Wear

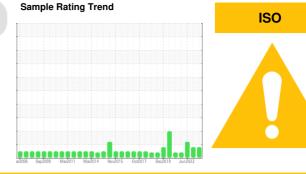
All component wear rates are normal.

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.



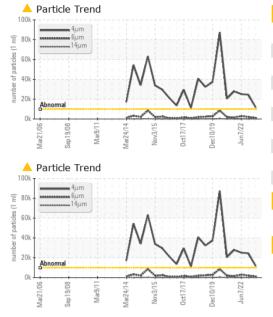
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|------------------|----------|---------------|------------|-------------------|---------------|----------------|
| Sample Number | | Client Info | | WC0455721 | WC0455769 | WC0445375 |
| Sample Date | | Client Info | | 24 May 2023 | 05 Dec 2022 | 07 Jun 2022 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | ATTENTION | ABNORMAL | ABNORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185(m) | >63 | 2 | 3 | 3 |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >20 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185(m) | >161 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185(m) | >13 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >27 | 7 | 8 | 7 |
| Antimony | ppm | ASTM D5185(m) | | <1 | <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) | 4.5 | <1 | <1 | 0 |
| Barium | ppm | ASTM D5185(m) | 0.4 | <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 | 0 |
| Calcium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185(m) | 0.7 | 1 | 1 | 1 |
| Zinc | ppm | ASTM D5185(m) | | 2 | 2 | 2 |
| Sulfur | ppm | ASTM D5185(m) | 1315 | 1392 | 1318 | 1338 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| CONTAMINANTS | S | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | >12 | 0 | 0 | 0 |
| Sodium | ppm | ASTM D5185(m) | | <1 | <1 | 0 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| FLUID CLEANLIN | NESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >10000 | A 11660 | 2 4406 | 4 25186 |
| Particles >6µm | | ASTM D7647 | >2500 | 1040 | 1913 | <u> </u> |
| Particles >14µm | | ASTM D7647 | >160 | 43 | 63 | 115 |
| Particles >21µm | | ASTM D7647 | >40 | 10 | 14 | 25 |
| Particles >38µm | | ASTM D7647 | >10 | 1 | 1 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 1 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/14 | A 21/17/13 | ▲ 22/18/13 | ▲ 22/19/14 |
| FLUID DEGRAD | ATION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.02 | 0.11 | 0.13 | 0.11 |
| 16:51) Bev: 1 | | | | | Submittee | Bv: Paul Mart |

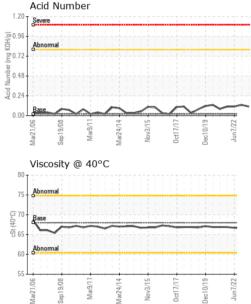
Report Id: NEWSTJ [WCAMIS] 02563203 (Generated: 09/26/2023 13:16:51) Rev: 1

Submitted By: Paul Martin



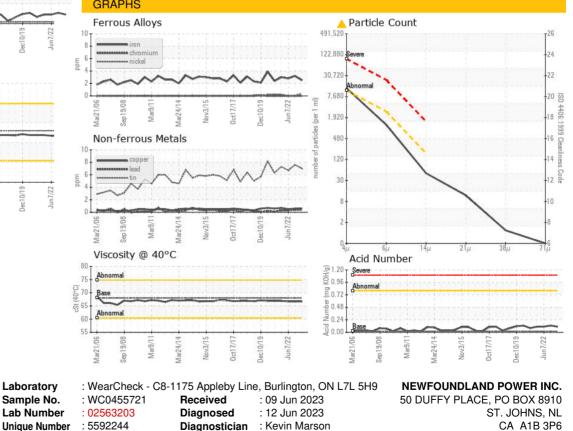
OIL ANALYSIS REPORT





| 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* | >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) | 68 | 66.7 | 66.7 | 66.7 |
| SAMPLE IMAGES | S | method | limit/base | current | history1 | history2 |
| Color | | | | | | |
| Bottom | | | | | | |





Laboratory Test Package : IND 2 (Additional Tests: TAN Man) 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.

Report Id: NEWSTJ [WCAMIS] 02563203 (Generated: 09/26/2023 13:16:51) Rev: 1

CALA

ISO 17025:2017

Accredited

Submitted By: Paul Martin

pmartin@newfoundlandpower.com

Contact: Paul Martin

F: (709)737-2926

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