

PROBLEM SUMMARY

Sample Rating Trend

ISO

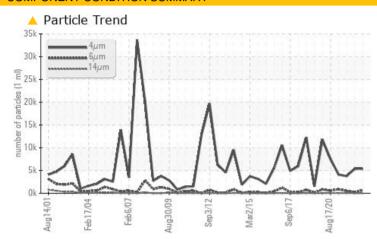
iso iso

Temboard/Finishing/Pulp Preparation Machine Id N/A [806-270-020] TB Winder Hydraulic Unit

Component Hydraulic System

ESSO NUTO H ISO 46 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

| PROBLEMATIC TE | ST RESULTS | | | | |
|-----------------|--------------|---------|-----------------|----------|----------|
| Sample Status | | | ATTENTION | NORMAL | NORMAL |
| Particles >6µm | ASTM D7647 | >640 | △ 659 | 220 | 511 |
| Oil Cleanliness | ISO 4406 (c) | >/16/14 | 20/17/12 | 20/15/10 | 19/16/13 |

Customer Id: TEMTEMMD Sample No.: WC0841326 Lab Number: 02588278 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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. |
| Information Required | | | ? | NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. |

HISTORICAL DIAGNOSIS

06 Sep 2022 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. 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.



30 Aug 2021 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. 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

16 Feb 2021 Diag: Kevin Marson

150



We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Temboard/Finishing/Pulp Preparation N/A [806-270-020] TB Winder Hydraulic Unit

Hydraulic System

ESSO NUTO H ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. 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 a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

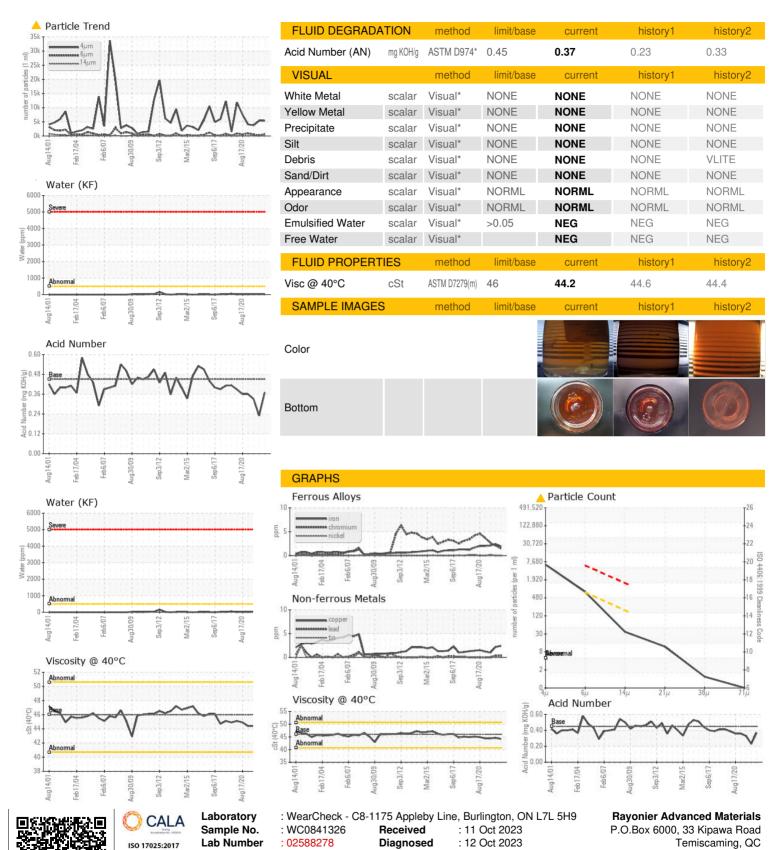
Fluid Condition

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

| g2001 Feb2004 Feb2007 Aug2009 Smp2012 Mm2015 Smp2017 Aug2020 | | | | | | | |
|--|--------|---------------|------------|-------------|-------------|-------------|--|
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 | |
| Sample Number | | Client Info | | WC0841326 | WC0725811 | WC0608950 | |
| Sample Date | | Client Info | | 20 Aug 2023 | 06 Sep 2022 | 30 Aug 2021 | |
| 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 | NORMAL | NORMAL | |
| WEAR METALS | | method | limit/base | current | history1 | history2 | |
| Iron | ppm | ASTM D5185(m) | >20 | 2 | 2 | 2 | |
| Chromium | ppm | ASTM D5185(m) | >20 | 2 | 2 | 3 | |
| Nickel | ppm | ASTM D5185(m) | >20 | 0 | 0 | <1 | |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 | |
| Silver | ppm | ASTM D5185(m) | | <1 | 0 | <1 | |
| Aluminum | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 | |
| Lead | ppm | ASTM D5185(m) | >20 | <1 | <1 | 0 | |
| Copper | ppm | ASTM D5185(m) | >20 | 2 | 2 | 1 | |
| Tin | ppm | ASTM D5185(m) | >20 | 0 | <1 | <1 | |
| Antimony | ppm | ASTM D5185(m) | | 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) | 0 | <1 | <1 | 1 | |
| Barium | ppm | ASTM D5185(m) | 0 | <1 | 0 | 0 | |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | <1 | <1 | |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | 0 | |
| Magnesium | ppm | ASTM D5185(m) | 5 | 1 | 2 | 2 | |
| Calcium | ppm | ASTM D5185(m) | 50 | 46 | 44 | 46 | |
| Phosphorus | ppm | ASTM D5185(m) | 330 | 344 | 361 | 364 | |
| Zinc | ppm | ASTM D5185(m) | 410 | 416 | 387 | 431 | |
| Sulfur | ppm | ASTM D5185(m) | 2700 | 4900 | 4313 | 4362 | |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 | |
| Silicon | ppm | ASTM D5185(m) | >15 | 2 | 2 | 2 | |
| Sodium | ppm | ASTM D5185(m) | | <1 | 1 | <1 | |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | <1 | <1 | |
| Water | % | ASTM D6304* | >0.05 | 0.002 | 0.002 | 0.002 | |
| ppm Water | ppm | ASTM D6304* | >500 | 20.3 | 23.6 | 21.7 | |
| FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 | |
| Particles >4µm | | ASTM D7647 | | 5383 | 5373 | 3754 | |
| Particles >6µm | | ASTM D7647 | >640 | 659 | 220 | 511 | |
| Particles >14µm | | ASTM D7647 | >160 | 31 | 8 | 56 | |
| Particles >21µm | | ASTM D7647 | >40 | 10 | 2 | 19 | |
| • | | ASTM D7647 | >10 | | 0 | 2 | |
| Particles >38µm | | A31W D7047 | >10 | 1 | U | ~ | |
| Particles >38µm Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 | |



OIL ANALYSIS REPORT



Diagnostician : Wes Davis

Unique Number

: 5657344

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

Test Package : IND 2 (Additional Tests: KF, TAN Man)

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.

Accredited

T: (819)627-4931

F: (819)627-1507

CA J0Z 3R0

Contact: Santosh Raikar

santosh.raikar@rayonieram.com