

OIL ANALYSIS REPORT

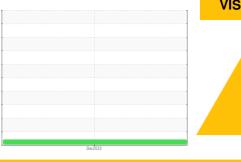
Sample Rating Trend

VISCOSITY

DOOSAN DL420-5 DWGCWLBJLL1010785

Component **Transmission**

DOOSAN 15W40 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

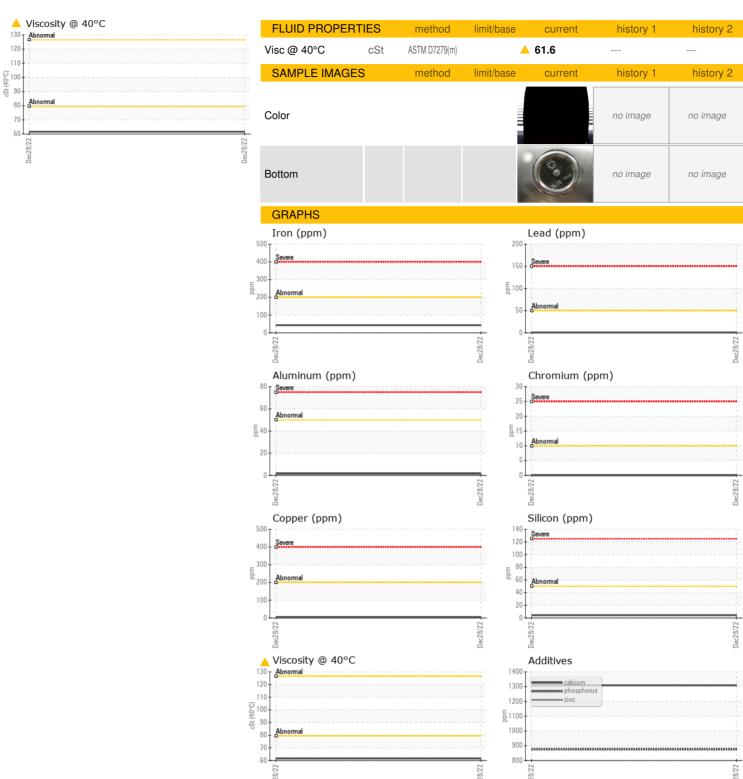
Fluid Condition

Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The condition of the fluid is acceptable for the time in service.

| | | | | Dec2022 | | |
|-------------------------------|----------|-----------------------------|------------|-------------------------|--------------------|-------------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history 1 | history 2 |
| Sample Number | | Client Info | | WC0713504 | | |
| Sample Date | | Client Info | | 28 Dec 2022 | | |
| Machine Age | hrs | Client Info | | 3935 | | |
| Oil Age | hrs | Client Info | | 1000 | | |
| Oil Changed | | Client Info | | Changed | | |
| Sample Status | | | | ABNORMAL | | |
| WEAR METALS | | method | limit/base | current | history 1 | history 2 |
| Iron | ppm | ASTM D5185(m) | >200 | 43 | | |
| Chromium | ppm | ASTM D5185(m) | >10 | 0 | | |
| Nickel | ppm | ASTM D5185(m) | | 0 | | |
| Titanium | ppm | ASTM D5185(m) | | <1 | | |
| Silver | ppm | ASTM D5185(m) | | 0 | | |
| Aluminum | ppm | ASTM D5185(m) | >50 | 2 | | |
| Lead | ppm | ASTM D5185(m) | >50 | <1 | | |
| Copper | ppm | ASTM D5185(m) | >200 | 3 | | |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | | |
| Antimony | ppm | ASTM D5185(m) | | 0 | | |
| Vanadium | ppm | ASTM D5185(m) | | 0 | | |
| Beryllium | ppm | ASTM D5185(m) | | 0 | | |
| Cadmium | ppm | ASTM D5185(m) | | 0 | | |
| ADDITIVES | 1-1- | method | limit/base | | history 1 | history 2 |
| Boron | n 10 100 | | mine bacc | 72 | THOUSE I | motory L |
| Barium | ppm | ASTM D5185(m) | | 0 | | |
| | ppm | ASTM D5185(m) | | 12 | | |
| Monganasa | ppm | ASTM D5185(m) ASTM D5185(m) | | <1 | | |
| Manganese Magnesium | ppm | 1 / | | 743 | | |
| Calcium | ppm | ASTM D5185(m) ASTM D5185(m) | | 1309 | | |
| | ppm | , | | 875 | | |
| Phosphorus Zinc | ppm | ASTM D5185(m) ASTM D5185(m) | | 880 | | |
| Sulfur | ppm | 1 / | | 2756 | | |
| | ppm | ASTM D5185(m) | | <1 | | |
| Lithium | ppm | ASTM D5185(m) | | <1 | | |
| CONTAMINANTS | 5 | method | limit/base | current | history 1 | history 2 |
| Silicon | ppm | ASTM D5185(m) | >50 | 4 | | |
| Sodium | ppm | ASTM D5185(m) | | 10 | | |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | | |
| VISUAL | | method | limit/base | current | history 1 | history 2 |
| White Metal | scalar | Visual* | NONE | NONE | | |
| Yellow Metal | scalar | Visual* | NONE | NONE | | |
| Precipitate | scalar | Visual* | NONE | NONE | | |
| Silt | scalar | Visual* | NONE | NONE | | |
| Debris | scalar | Visual* | NONE | NONE | | |
| Sand/Dirt | scalar | Visual* | NONE | NONE | | |
| Appearance | scalar | Visual* | NORML | NORML | | |
| Odor | scalar | Visual* | NORML | NORML | | |
| Emulsified Water | scalar | Visual* | >0.1 | NEG | | |
| Free Water 3:42:30) Rev: 1 | scalar | Visual* | | NEG Contact/Location | on: Randy Mann | ı - MAN736GUE |



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Test Package : MOB 1

Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0713504 : 02531070 : 5512069

Received Diagnosed Diagnostician : Kevin Marson

: 03 Jan 2023 : 03 Jan 2023

Contact: Randy Mann randy@mannconstruction.ca

7367 Wellington County Road 30

T: F:

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.

Mann 2018 Ltd.

GUELPH, ON

CA N1H 6J3