OIL ANALYSIS REPORT


## Hydraulic System

NOT GIVEN (--- GAL)

## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

## Wear

All component wear rates are normal.

## Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

## Fluid Condition

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

| SAMPLE INFORMATION |  | method | limit/base | current | history1 | history2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sample Number |  | Client Info |  | WC0857155 | WC0512302 | --- |
| Sample Date |  | Client Info |  | 31 Oct 2023 | 27 Oct 2020 | --- |
| Machine Age | hrs | Client Info |  | 0 | 0 | --- |
| Oil Age | hrs | Client Info |  | 0 | 0 | --- |
| Oil Changed |  | Client Info |  | N/A | N/A | --- |
| Sample Status |  |  |  | NORMAL | NORMAL | --- |
| WEAR METALS |  | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | 8 | 2 | --- |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | --- |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m |  | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m |  | 0 | <1 | --- |
| Aluminum | ppm | ASTM D5185m | $>20$ | 0 | 0 | --- |
| Lead | ppm | ASTM D5185m | >20 | 0 | <1 | --- |
| Copper | ppm | ASTM D5185m | $>20$ | $<1$ | $<1$ | --- |
| Tin | ppm | ASTM D5185m | >20 | 0 | <1 | --- |
| Antimony | ppm | ASTM D5185m |  | --- | 0 | --- |
| Vanadium | ppm | ASTM D5185m |  | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185m |  | 0 | 0 | --- |
| ADDITIVES |  | method | limit/base | current | history 1 | history2 |
| Boron | ppm | ASTM D5185m |  | 0 | <1 | --- |
| Barium | ppm | ASTM D5185m |  | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m |  | 0 | <1 | --- |
| Manganese | ppm | ASTM D5185m |  | 0 | 0 | --- |
| Magnesium | ppm | ASTM D5185m |  | 1 | <1 | --- |
| Calcium | ppm | ASTM D5185m |  | 210 | 270 | --- |
| Phosphorus | ppm | ASTM D5185m |  | 435 | 463 | --- |
| Zinc | ppm | ASTM D5185m |  | 604 | 601 | --- |
| Sulfur | ppm | ASTM D5185m |  | 1188 | 1177 | --- |
| CONTAMINANTS |  | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | <1 | <1 | --- |
| Sodium | ppm | ASTM D5185m |  | 1 | 0 | --- |
| Potassium | ppm | ASTM D5185m | >20 | <1 | <1 | --- |
| FLUID CLEANLINESS |  | method | limit/base | current | history 1 | history2 |
| Particles $>4 \mu \mathrm{~m}$ |  | ASTM D7647 | $>5000$ | 1315 | 332 | --- |
| Particles $>6 \mu \mathrm{~m}$ |  | ASTM D7647 | $>1300$ | 401 | 99 | --- |
| Particles $>14 \mu \mathrm{~m}$ |  | ASTM D7647 | >160 | 34 | 6 | --- |
| Particles $>21 \mu \mathrm{~m}$ |  | ASTM D7647 | $>40$ | 9 | 0 | --- |
| Particles $>38 \mu \mathrm{~m}$ |  | ASTM D7647 | $>10$ | 1 | 0 | --- |
| Particles $>71 \mu \mathrm{~m}$ |  | ASTM D7647 | >3 | 0 | 0 | --- |
| Oil Cleanliness |  | ISO 4406 (c) | >19/17/14 | 18/16/12 | 16/14/10 | --- |
| FLUID DEGRADATION |  | method | limit/base | current | history1 | history2 |

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| VISUAL |  | method | limitbase | current | history1 | history2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.05 | NEG | NEG | --- |
| Free Water | scalar | *Visual |  | NEG | NEG | --- |
| FLUID PROPERTIES |  | method | limitbase | current | history1 | history2 |
| Visc @ $40^{\circ} \mathrm{C}$ | cSt | ASTM D445 |  | 30.4 | 51.3 | --- |
| SAMPLE IMAGES |  | method | limitbase | current | history1 | history2 |


no image
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## GRAPHS



Laboratory

To discuss this sample report, contact Customer Service at 1-800-237-1369.

*     - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
: WearCheck USA - 501 Madison Ave., Cary, NC 27513

| Sample No. | $:$ WC0857155 | Received | $: 01$ Nov 2023 |
| :--- | :--- | :--- | :--- |
| Lab Number | $: 05995540$ | Diagnosed | $: 02$ Nov 2023 |
| Unique Number | $: 10723900$ | Diagnostician | : Don Baldridge |





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