

WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL

MARGINAL

NORMAL

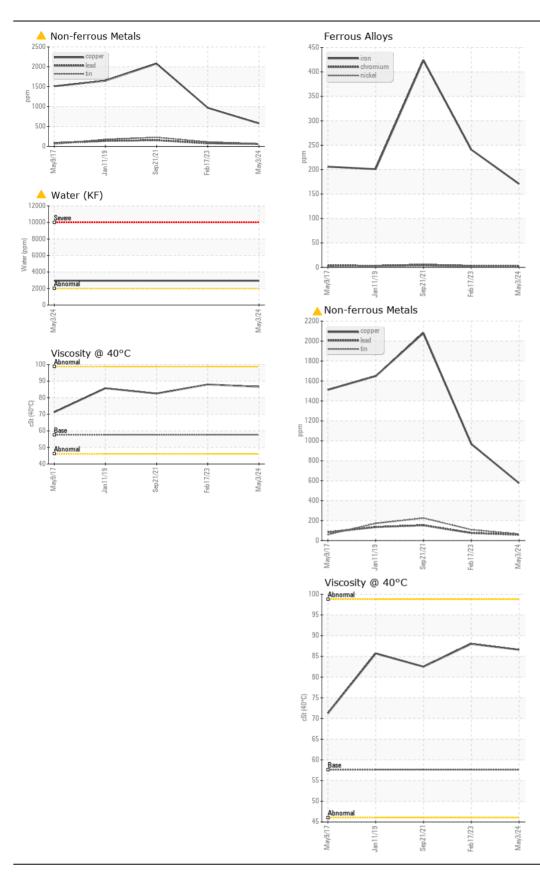


## OKLAHOMA/102/EG - BACKHOE LOADER 53.513L [OKLAHOMA^102^EG - BACKHOE LOADER]

Front Right Final Drive

MOBIL MOBILTRANS AST 30 (--- GAL)

| MOBIL MOBILTRANS AST 30 ( GAL)  |                  |        |             |           |                |              |             |
|---|------------------|--------|-------------|-----------|----------------|--------------|-------------|
| RECOMMENDATION  | Test             | UOM    | Method      | Limit/Abn | Current        | History1     | History2    |
| No corrective action is recommended at this time. We recommend an early resample to monitor this condition. ( Customer Sample Comment: 5634 hours ) | Sample Number    |        | Client Info |           | WC0864413      | WC0603254    | WC0622950   |
|   | Sample Date      |        | Client Info |           | 03 May 2024    | 17 Feb 2023  | 21 Sep 2021 |
|   | Machine Age      | hrs    | Client Info |           | 5634           | 5700         | 3420        |
|   | Oil Age          | hrs    | Client Info |           | 5634           | 2280         | 500         |
|   | Filter Age       | hrs    | Client Info |           | 0              | 0            | 0           |
|   | Oil Changed      |        | Client Info |           | N/A            | N/A          | Changed     |
|   | Filter Changed   |        | Client Info |           | N/A            | N/A          | N/A         |
|   | Sample Status    |        |             |           | ABNORMAL       | ABNORMAL     | SEVERE      |
| WEAR  | Iron             | ppm    | ASTM D5185m | >800      | 171            | 241          | 424         |
| Bearing and/or bushing wear is indicated.   | Chromium         | ppm    | ASTM D5185m | >10       | 2              | 3            | 5           |
|   | Nickel           | ppm    | ASTM D5185m | >5        | <1             | 1            | 3           |
|   | Titanium         | ppm    | ASTM D5185m | >15       | <1             | <1           | 1           |
|   | Silver           | ppm    | ASTM D5185m | >2        | <1             | 0            | <1          |
|   | Aluminum         | ppm    | ASTM D5185m | >75       | 2              | 4            | 4           |
|   | Lead             | ppm    | ASTM D5185m | >10       | <b>▲</b> 58    | <b>△</b> 76  | <b>1</b> 53 |
|   | Copper           | ppm    | ASTM D5185m | >75       | <u> </u>       | <b>△</b> 969 | ▲ 2080      |
|   | Tin              | ppm    | ASTM D5185m | >8        | <b>△</b> 65    | <u> </u>     | <b>225</b>  |
|   | Vanadium         | ppm    | ASTM D5185m |           | 0              | 0            | 0           |
|   | White Metal      | scalar | *Visual     | NONE      | NONE           | NONE         | NONE        |
|   | Yellow Metal     | scalar | *Visual     | NONE      | NONE           | NONE         | NONE        |
| CONTAMINATION   | Silicon          | ppm    | ASTM D5185m | >400      | 18             | 19           | 26          |
| There is a light concentration of water present in the oil.   | Potassium        | ppm    | ASTM D5185m | >20       | 0              | 2            | 7           |
|   | Water            | %      | ASTM D6304  | >0.2      | <b>△</b> 0.294 |              |             |
|   | ppm Water        | ppm    | ASTM D6304  | >2000     | <b>2940</b>    |              |             |
|   | Silt             | scalar | *Visual     | NONE      | MODER          | 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     | >0.2      | 0.2%           | NEG          | NEG         |
| FLUID CONDITION   | Sodium           | ppm    | ASTM D5185m |           | 4              | 4            | 8           |
| The condition of the oil is acceptable for the time in service.   | Boron            | ppm    | ASTM D5185m |           | 16             | 33           | 27          |
|   | Barium           | ppm    | ASTM D5185m |           | 0              | 2            | 7           |
|   | Molybdenum       | ppm    | ASTM D5185m |           | 2              | 4            | 8           |
|   | Manganese        | ppm    | ASTM D5185m |           | 3              | 2            | 5           |
|   | Magnesium        | ppm    | ASTM D5185m |           | 17             | 18           | 16          |
|   | Calcium          | ppm    | ASTM D5185m |           | 3256           | 2905         | 3130        |
|   | Phosphorus       | ppm    | ASTM D5185m |           | 1006           | 943          | 931         |
|   | Zinc             | ppm    | ASTM D5185m |           | 1237           | 1186         | 1085        |
|   | Sulfur           | ppm    | ASTM D5185m |           | 5032           | 5725         | 7107        |
|   | Visc @ 40°C      | cSt    | ASTM D445   | 57.6      | 86.6           | 88.0         | 82.5        |







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0864413 Lab Number : 06177535

Received **Tested** Unique Number: 11023588

Diagnosed Test Package : CONST ( Additional Tests: KF )

: 15 May 2024 - Don Baldridge

: 13 May 2024

: 15 May 2024

SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS US 67213 Contact: DOUG KING

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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)

F: x: