

Area

## **OIL ANALYSIS REPORT**

# OKLAHOMA/115/EG - LOADER 48.83L [OKLAHOMA^115^EG - LOADER]



Sample Rating Trend



NORMAL

Hydraulic System Fluid MOBIL MOBILTRANS AST 30 (--- GAL)

| DIAGNOSIS  | SAMPLE INFORM    | MATION   | method       | limit/base | current     | history1    | history2       |
|--|------------------|----------|--------------|------------|-------------|-------------|----------------|
| Recommendation   | Sample Number    |          | Client Info  |            | WC0848870   | WC0857474   | WC0886885      |
| Resample at the next service interval to monitor.  | Sample Date      |          | Client Info  |            | 05 Apr 2024 | 12 Mar 2024 | 06 Feb 2024    |
| Wear   | Machine Age      | hrs      | Client Info  |            | 11425       | 11307       | 11101          |
| All component wear rates are normal.   | Oil Age          | hrs      | Client Info  |            | 500         | 500         | 500            |
| Contamination  | Oil Changed      |          | Client Info  |            | Changed     | Changed     | Not Changd     |
| The system cleanliness is acceptable for your target   | Sample Status    |          |              |            | NORMAL      | NORMAL      | SEVERE         |
| ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.   | CONTAMINATIO     | N        | method       | limit/base | current     | history1    | history2       |
| Fluid Condition<br>The AN level is acceptable for this fluid. The<br>condition of the oil is suitable for further service. | Water            |          | WC Method    | >0.1       | NEG         | NEG         | NEG            |
|  | WEAR METALS      |          | method       | limit/base | current     | history1    | history2       |
|  | Iron             | ppm      | ASTM D5185m  | >20        | 6           | 3           | 13             |
|  | Chromium         | ppm      | ASTM D5185m  | >10        | 0           | <1          | <1             |
|  | Nickel           | ppm      | ASTM D5185m  | >10        | 0           | 0           | <1             |
|  | Titanium         | ppm      | ASTM D5185m  |            | 0           | 0           | <1             |
|  | Silver           | ppm      | ASTM D5185m  |            | 0           | 0           | <1             |
|  | Aluminum         | ppm      | ASTM D5185m  | >10        | 2           | 2           | 2              |
|  | Lead             | ppm      | ASTM D5185m  | >10        | 0           | 0           | 1              |
|  | Copper           | ppm      | ASTM D5185m  | >75        | 2           | 3           | 8              |
|  | Tin              | ppm      | ASTM D5185m  | >10        | 0           | 0           | <1             |
|  | Vanadium         | ppm      | ASTM D5185m  |            | 0           | 0           | 0              |
|  | Cadmium          | ppm      | ASTM D5185m  |            | 0           | 0           | <1             |
|  | ADDITIVES        |          | method       | limit/base | current     | history1    | history2       |
|  | Boron            | ppm      | ASTM D5185m  |            | 53          | 57          | 59             |
|  | Barium           | ppm      | ASTM D5185m  |            | 0           | 0           | 5              |
|  | Molybdenum       | ppm      | ASTM D5185m  |            | <1          | 0           | 2              |
|  | Manganese        | ppm      | ASTM D5185m  |            | <1          | <1          | <1             |
|  | Magnesium        | ppm      | ASTM D5185m  |            | 20          | 19          | 16             |
|  | Calcium          | ppm      | ASTM D5185m  |            | 3271        | 3126        | 2935           |
|  | Phosphorus       | ppm      | ASTM D5185m  |            | 1104        | 1126        | 975            |
|  | Zinc             | ppm      | ASTM D5185m  |            | 1381        | 1356        | 1176           |
|  | Sulfur           | ppm      | ASTM D5185m  |            | 6059        | 5878        | 4995           |
|  | CONTAMINANTS     | \$       | method       | limit/base | current     | history1    | history2       |
|  | Silicon          | ppm      | ASTM D5185m  | >20        | 9           | 10          | 15             |
|  | Sodium           | ppm      | ASTM D5185m  |            | 2           | 3           | 0              |
|  | Potassium        | ppm      | ASTM D5185m  | >20        | 1           | 0           | 3              |
|  | FLUID CLEANLIN   | IESS     | method       | limit/base | current     | history1    | history2       |
|  | Particles >4µm   |          | ASTM D7647   |            | 66384       | 92843       | 197951         |
|  | Particles >6µm   |          | ASTM D7647   | >2500      | 832         | 1794        | <b>1</b> 16005 |
|  | Particles >14µm  |          | ASTM D7647   | >640       | 26          | 31          | 225            |
|  | Particles >21µm  |          | ASTM D7647   | >160       | 7           | 8           | 4              |
|  | Particles >38µm  |          | ASTM D7647   | >40        | 0           | 0           | 0              |
|  | Particles >71µm  |          | ASTM D7647   | >10        | 0           | 0           | 0              |
|  | Oil Cleanliness  |          | ISO 4406 (c) | >/18/16    | 23/17/12    | 24/18/12    | ▲ 25/24/15     |
|  | FLUID DEGRADA    | ATION    | method       | limit/base | current     | history1    | history2       |
|  | Acid Number (AN) | mg KOH/g | ASTM D8045   |            | 1.38        | 1.20        | 1.56           |

### Report Id: SHEWIC [WUSCAR] 06160286 (Generated: 04/26/2024 11:11:43) Rev: 1

Submitted By: PATRICIA BIBLE Page 1 of 2



## **OIL ANALYSIS REPORT**









| VISUAI           |        | method    | limit/base | current | historv1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
|                  |        |           |            | ounom   |          |          |
| 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   | >0.1       | NEG     | NEG      | NEG      |
| Free Water       | scalar | *Visual   |            | NEG     | NEG      | NEG      |
| FLUID PROPERT    | IES    | method    | limit/base | current | history1 | history2 |
| Visc @ 40°C      | cSt    | ASTM D445 | 57.6       | 84.9    | 81.4     | 82.7     |
| SAMPLE IMAGES    | ;      | method    | limit/base | current | history1 | history2 |
| Color            |        |           |            |         |          |          |
| Bottom           |        |           |            |         |          |          |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SHERWOOD CONSTRUCTION CO INC : WC0848870 Sample No. Received : 25 Apr 2024 3219 WEST MAY ST Lab Number : 06160286 Tested : 26 Apr 2024 WICHITA, KS Unique Number : 10995709 Diagnosed : 26 Apr 2024 - Wes Davis US 67213 Test Package : CONST Contact: DOUG KING Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. doug.king@sherwood.net \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (316)617-3161 

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: SHEWIC [WUSCAR] 06160286 (Generated: 04/26/2024 11:11:43) Rev: 1

Submitted By: PATRICIA BIBLE

Page 2 of 2

F: x: