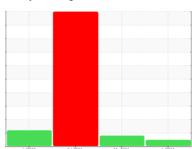


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# AF12-105-M21101 LOG RECEIVING DECK GEARBOX 1

Gear Drive

**MOBIL MOBILGEAR SHC 150 (--- GAL)** 

## DIAGNOSIS

#### Recommendation

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

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

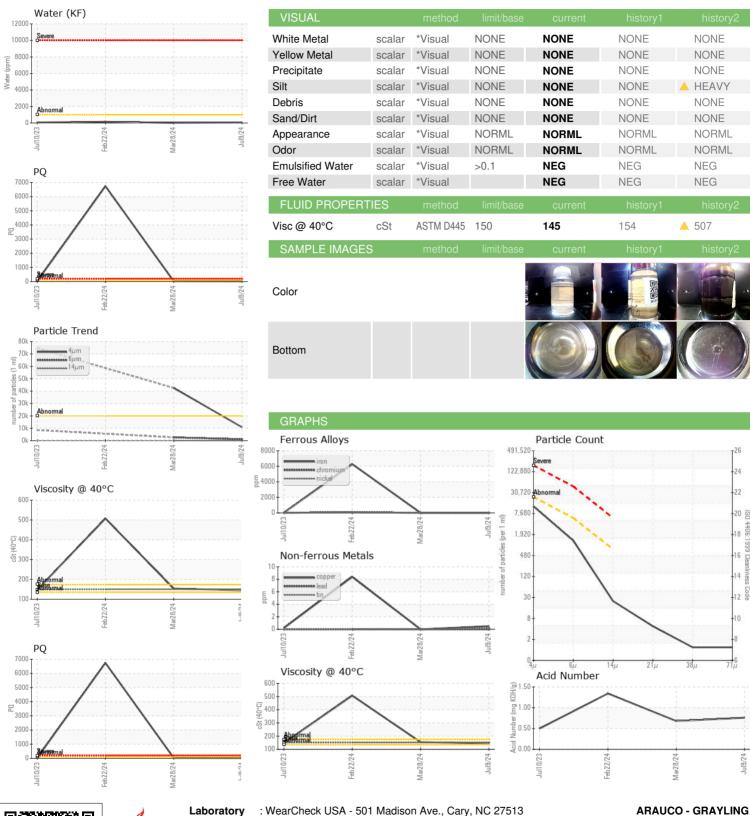
#### **Fluid Condition**

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

|                    |            | Jul202:                  | Feb 2024   | Mar2024 J     | ul2024            |               |
|--------------------|------------|--------------------------|------------|---------------|-------------------|---------------|
| SAMPLE INFORI      | MATION     | method                   | limit/base | current       | history1          | history2      |
| Sample Number      |            | Client Info              |            | WC0936663     | WC0874506         | WC0891289     |
| Sample Date        |            | Client Info              |            | 09 Jul 2024   | 28 Mar 2024       | 22 Feb 2024   |
| Machine Age        | yrs        | Client Info              |            | 0             | 6                 | 5             |
| Oil Age            | yrs        | Client Info              |            | 0             | 1                 | 0             |
| Oil Changed        |            | Client Info              |            | N/A           | N/A               | N/A           |
| Sample Status      |            |                          |            | NORMAL        | ABNORMAL          | SEVERE        |
| WEAR METALS        |            | method                   | limit/base | current       | history1          | history2      |
| PQ                 |            | ASTM D8184               |            | 14            | 25                | <b>▲</b> 6734 |
| Iron               | ppm        | ASTM D5185m              | >150       | 3             | 13                | <b>6268</b>   |
| Chromium           | ppm        | ASTM D5185m              | >10        | <1            | 0                 | <b>A</b> 88   |
| Nickel             | ppm        | ASTM D5185m              | >10        | 0             | 0                 | <b>4</b> 0    |
| Titanium           | ppm        | ASTM D5185m              |            | <1            | 0                 | 0             |
| Silver             | ppm        | ASTM D5185m              |            | <1            | 0                 | 0             |
| Aluminum           | ppm        | ASTM D5185m              | >25        | 4             | 0                 | <1            |
| Lead               | ppm        | ASTM D5185m              | >100       | 0             | 0                 | 0             |
| Copper             | ppm        | ASTM D5185m              | >50        | <1            | 0                 | 8             |
| Tin                | ppm        |                          | >10        | <1            | 0                 | 0             |
| Vanadium           | ppm        | ASTM D5185m              | >10        | <1            | <1                | <1            |
| Cadmium            | ppm        | ASTM D5185m              |            | <1            | 0                 | 0             |
| ADDITIVES          |            | method                   | limit/base | current       | history1          | history2      |
| Boron              | ppm        | ASTM D5185m              |            | 0             | 0                 | 2             |
| Barium             | ppm        | ASTM D5185m              |            | 0             | 0                 | 0             |
| Molybdenum         | ppm        | ASTM D5185m              |            | <1            | 0                 | 7             |
| Manganese          | ppm        | ASTM D5185m              |            | 0             | 0                 | 26            |
| Magnesium          | ppm        | ASTM D5185m              |            | <1            | <1                | 0             |
| Calcium            | ppm        | ASTM D5185m              |            | 81            | 218               | 60            |
| Phosphorus         |            | ASTM D5185m              |            | 391           | 445               | 609           |
| Zinc               | ppm        | ASTM D5185m              |            | 2             | 0                 | 25            |
| Sulfur             | ppm<br>ppm | ASTM D5185m              |            | 1877          | 2420              | 2199          |
| CONTAMINANTS       |            | method                   | limit/base |               |                   |               |
| Silicon            |            | ASTM D5185m              | >50        | current<br>24 | history1<br>25    | history2      |
| Sodium             | ppm        | ASTM D5185m              | >50        | 0             | 0                 | 0             |
|                    | ppm        |                          | . 00       | -             |                   |               |
| Potassium          | ppm        | ASTM D5185m              | >20        | <1            | 0                 | 0 015         |
| Water<br>opm Water | %<br>ppm   | ASTM D6304<br>ASTM D6304 | >0.1       | 0.006<br>61   | 0.002<br>17       | 0.015<br>153  |
| FLUID CLEANLIN     |            |                          |            |               |                   |               |
|                    | VESS       | method                   | limit/base | current       | history1          | history2      |
| Particles >4µm     |            | ASTM D7647               | >20000     | 10830         | 42522             |               |
| Particles >6µm     |            | ASTM D7647               | >5000      | 1129          | 2616              |               |
| Particles >14µm    |            | ASTM D7647               | >640       | 21            | 43                |               |
| Particles >21µm    |            | ASTM D7647               | >160       | 4             | 10                |               |
| Particles >38µm    |            | ASTM D7647               | >40        | 1             | 0                 |               |
| Particles >71μm    |            | ASTM D7647               | >10        | 1             | 0                 |               |
| Oil Cleanliness    |            | ISO 4406 (c)             | >21/19/16  | 21/17/12      | <u>^</u> 23/19/13 |               |
| FLUID DEGRADA      | ATION      | method                   |            |               |                   | history2      |



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number

: WC0936663 : 06240309 Unique Number : 11129143 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jul 2024 Tested : 19 Jul 2024

Diagnosed : 19 Jul 2024 - Wes Davis

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

 $^st$  - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

5851 ARAUCO ROAD GRAYLING, MI

US 49738 Contact: JOSEPH GREEN

joseph.green@arauco.com T:

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

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