

### **OIL ANALYSIS REPORT**

Sample Rating Trend



# Plant US1 Greenville MAF3 - Hydraulic

Hydraulic System Fluid SHELL TELLUS S2 M 46 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### 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.

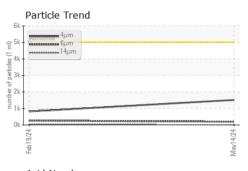
#### Fluid Condition

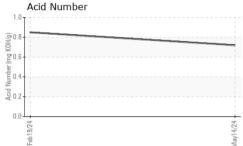
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

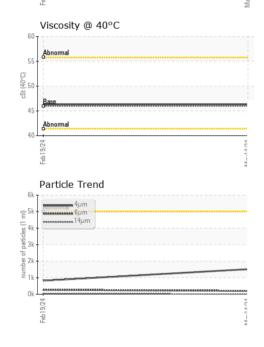
| SAMPLE INFORM    | IATION   | method       | limit/base | current     | history1    | history2 |
|------------------|----------|--------------|------------|-------------|-------------|----------|
| Sample Number    |          | Client Info  |            | TLC0001516  | TLC0001433  |          |
| Sample Date      |          | Client Info  |            | 14 May 2024 | 19 Feb 2024 |          |
| 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        | 0           | <1          |          |
| Chromium         | ppm      | ASTM D5185m  | >20        | 0           | <1          |          |
| Nickel           | ppm      | ASTM D5185m  | >20        | 0           | <1          |          |
| Titanium         | ppm      | ASTM D5185m  |            | 0           | <1          |          |
| Silver           | ppm      | ASTM D5185m  |            | <1          | <1          |          |
| Aluminum         | ppm      | ASTM D5185m  | >20        | 0           | <1          |          |
| Lead             | ppm      | ASTM D5185m  | >20        | 0           | <1          |          |
| Copper           | ppm      | ASTM D5185m  | >20        | <1          | <1          |          |
| Tin              | ppm      | ASTM D5185m  | >20        | 0           | <1          |          |
| Vanadium         | ppm      | ASTM D5185m  |            | 0           | 0           |          |
| Cadmium          | ppm      | ASTM D5185m  |            | 0           | <1          |          |
| ADDITIVES        |          | method       | limit/base | current     | history1    | history2 |
| Boron            | ppm      | ASTM D5185m  |            | 0           | 0           |          |
| Barium           | ppm      | ASTM D5185m  |            | 0           | 5           |          |
| Molybdenum       | ppm      | ASTM D5185m  |            | 0           | <1          |          |
| Manganese        | ppm      | ASTM D5185m  |            | 0           | <1          |          |
| Magnesium        | ppm      | ASTM D5185m  |            | 3           | 2           |          |
| Calcium          | ppm      | ASTM D5185m  |            | 6           | 5           |          |
| Phosphorus       | ppm      | ASTM D5185m  |            | 156         | 124         |          |
| Zinc             | ppm      | ASTM D5185m  |            | 45          | 15          |          |
| Sulfur           | ppm      | ASTM D5185m  |            | 1854        | 1915        |          |
| CONTAMINANTS     | • •      | method       | limit/base | current     | history1    | history2 |
| Silicon          | ppm      | ASTM D5185m  | >15        | 2           | 3           |          |
| Sodium           | ppm      | ASTM D5185m  | 210        | 1           | 0           |          |
| Potassium        | ppm      | ASTM D5185m  | >20        | 0           | <1          |          |
| Water            | %        | ASTM D6304   |            | NEG         | NEG         |          |
| FLUID CLEANLIN   | IESS     | method       | limit/base | current     | history1    | history2 |
| Particles >4µm   |          | ASTM D7647   | >5000      | 1516        | 821         |          |
| Particles >6µm   |          | ASTM D7647   | >1300      | 203         | 266         |          |
| Particles >14µm  |          | ASTM D7647   | >160       | 9           | 32          |          |
| Particles >21µm  |          | ASTM D7647   |            | 4           | 9           |          |
| Particles >38µm  |          | ASTM D7647   | >10        | 0           | 1           |          |
| Particles >71µm  |          | ASTM D7647   |            | 0           | 0           |          |
| Oil Cleanliness  |          | ISO 4406 (c) | >19/17/14  | 18/15/10    | 17/15/12    |          |
| FLUID DEGRADA    |          | method       | limit/base | current     | history1    | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045   |            | 0.72        | 0.85        |          |
| ( -)             | 0 - 0    |              |            |             | -           |          |

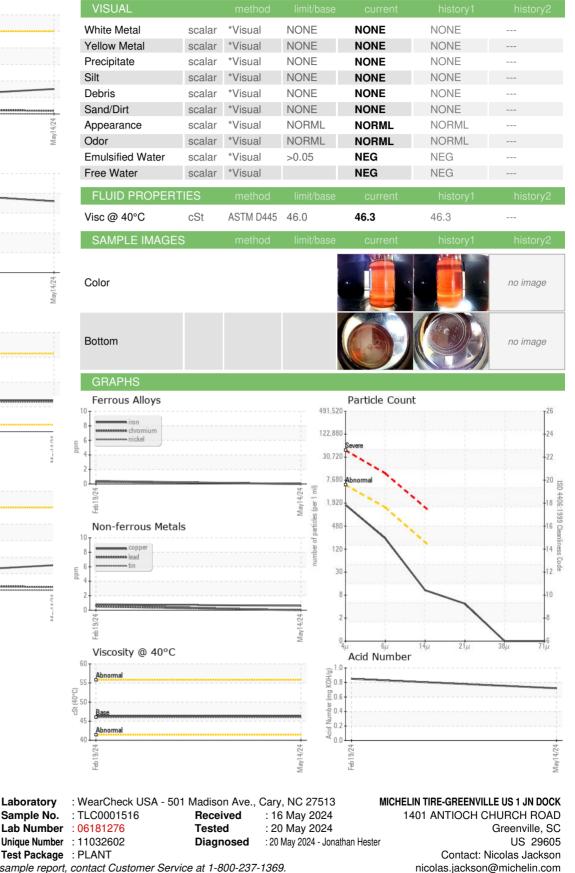


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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)

Certificate 12367

Laboratory

Sample No.

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E: