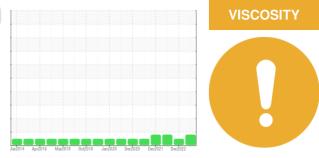


## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

### **HY/11WM**

#### Component Gearbox Fluid MOBIL MOBILGEAR SHC XMP 320 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Results confirmed.

#### Wear

All component wear rates are normal.

#### Contamination

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

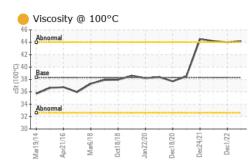
#### Fluid Condition

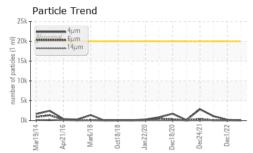
The oil viscosity at 100C is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

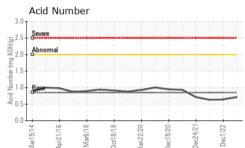
|                  |          | motriod      | innit/base | ourronn            | Thistory I  | motoryz     |
|------------------|----------|--------------|------------|--------------------|-------------|-------------|
| Sample Number    |          | Client Info  |            | WC0695209          | WC0695093   | WC0407154   |
| Sample Date      |          | Client Info  |            | 26 Jun 2023        | 01 Dec 2022 | 04 Jun 2022 |
| Machine Age      | hrs      | Client Info  |            | 0                  | 0           | 0           |
| Oil Age          | hrs      | Client Info  |            | 14112              | 9144        | 4752        |
| Oil Changed      |          | Client Info  |            | N/A                | N/A         | N/A         |
| Sample Status    |          |              |            | ATTENTION          | NORMAL      | ATTENTION   |
| WEAR METALS      |          | method       | limit/base | current            | history1    | history2    |
| Iron             | ppm      | ASTM D5185m  | >200       | 12                 | 7           | 4           |
| Chromium         | ppm      | ASTM D5185m  | >15        | <1                 | 0           | 0           |
| Nickel           | ppm      | ASTM D5185m  | >15        | <1                 | 0           | 0           |
| Titanium         | ppm      | ASTM D5185m  |            | <1                 | <1          | <1          |
| Silver           | ppm      | ASTM D5185m  |            | 0                  | 0           | 0           |
| Aluminum         | ppm      | ASTM D5185m  | >25        | 2                  | 0           | 0           |
| Lead             | ppm      | ASTM D5185m  | >100       | <1                 | 0           | 0           |
| Copper           | ppm      | ASTM D5185m  | >200       | <1                 | 0           | <1          |
| Tin              | ppm      | ASTM D5185m  | >25        | <1                 | 0           | 0           |
| Vanadium         | ppm      | ASTM D5185m  |            | <1                 | 0           | 0           |
| Cadmium          | ppm      | ASTM D5185m  |            | <1                 | 0           | 0           |
| ADDITIVES        |          | method       | limit/base | current            | history1    | history2    |
| Boron            | ppm      | ASTM D5185m  | 0          | 0                  | 0           | <1          |
| Barium           | ppm      | ASTM D5185m  |            | 0                  | 0           | 0           |
| Molybdenum       | ppm      | ASTM D5185m  | 0          | 0                  | 0           | 0           |
| Manganese        | ppm      | ASTM D5185m  |            | <1                 | <1          | <1          |
| Magnesium        | ppm      | ASTM D5185m  |            | <1                 | 1           | 2           |
| Calcium          | ppm      | ASTM D5185m  | 0          | <1                 | 0           | 8           |
| Phosphorus       | ppm      | ASTM D5185m  | 485        | 325                | 354         | 393         |
| Zinc             | ppm      | ASTM D5185m  | 0          | 9                  | 1           | 14          |
| Sulfur           | ppm      | ASTM D5185m  |            | <mark> </mark> 182 | 0           | <b>5</b> 5  |
| CONTAMINANTS     | S        | method       | limit/base | current            | history1    | history2    |
| Silicon          | ppm      | ASTM D5185m  | >50        | 5                  | 7           | 11          |
| Sodium           | ppm      | ASTM D5185m  | >15        | 0                  | 0           | <1          |
| Potassium        | ppm      | ASTM D5185m  | >20        | 2                  | 0           | <1          |
| Water            | %        | ASTM D6304   | >0.2       | NEG                | NEG         | NEG         |
| FLUID CLEANLIN   | NESS     | method       | limit/base | current            | history1    | history2    |
| Particles >4µm   |          | ASTM D7647   | >20000     | 76                 | 206         | 1051        |
| Particles >6µm   |          | ASTM D7647   | >5000      | 29                 | 44          | 47          |
| Particles >14µm  |          | ASTM D7647   | >640       | 5                  | 7           | 27          |
| Particles >21µm  |          | ASTM D7647   | >160       | 3                  | 2           | 22          |
| Particles >38µm  |          | ASTM D7647   | >40        | 1                  | 0           | 0           |
| Particles >71µm  |          | ASTM D7647   | >10        | 1                  | 0           | 0           |
| Oil Cleanliness  |          | ISO 4406 (c) | >21/19/16  | 13/12/10           | 15/13/10    | 17/13/12    |
| FLUID DEGRAD     | ATION    | method       | limit/base | current            | history1    | history2    |
| Acid Number (AN) | mg KOH/g | ASTM D8045   | 0.85       | 0.71               | 0.64        | 0.63        |
|                  |          |              |            |                    |             |             |



# **OIL ANALYSIS REPORT**







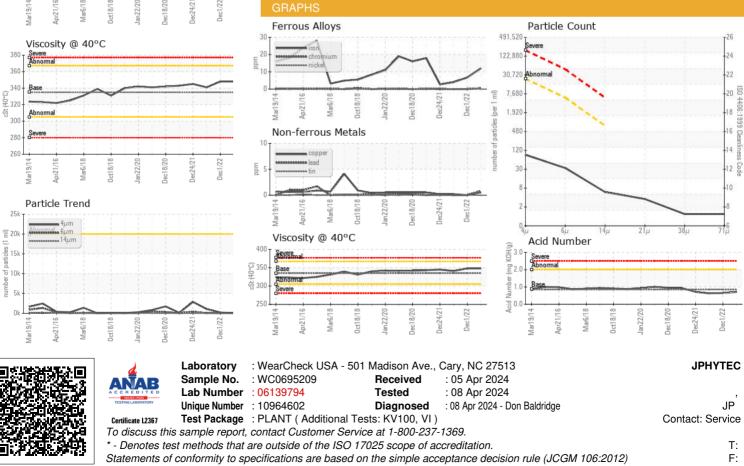
admin



Color

Bottom





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Contact/Location: Service ? - JPHYTEC

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