



Machine Id  
**UBE IMM3300-1**  
Component  
**Gearbox**  
Fluid  
**MOBIL SHC 629 (20 LTR)**

**RECOMMENDATION**

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

**WEAR**

All component wear rates are normal.

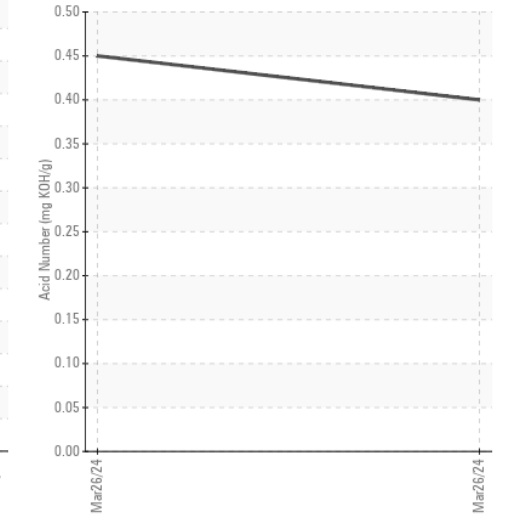
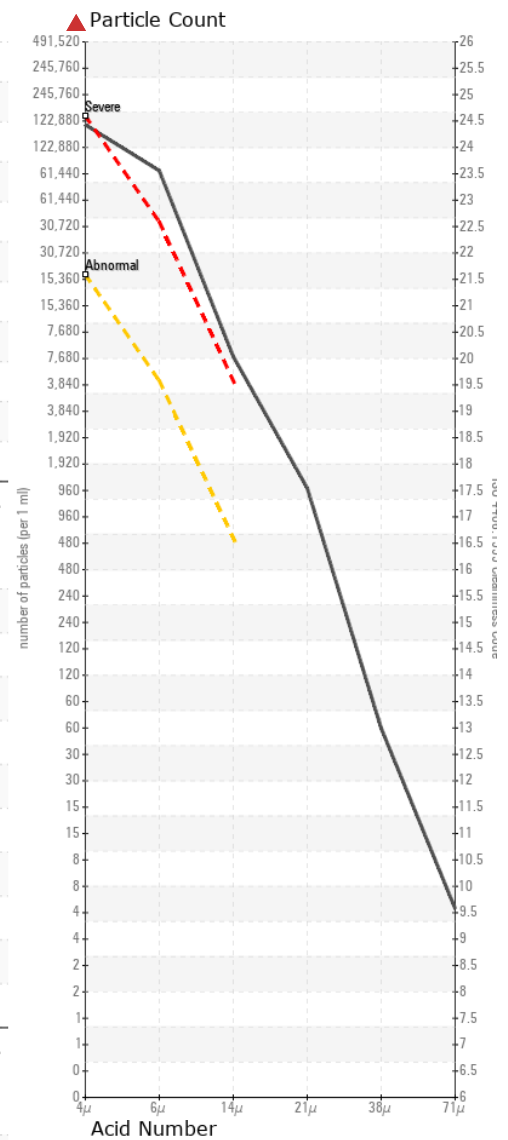
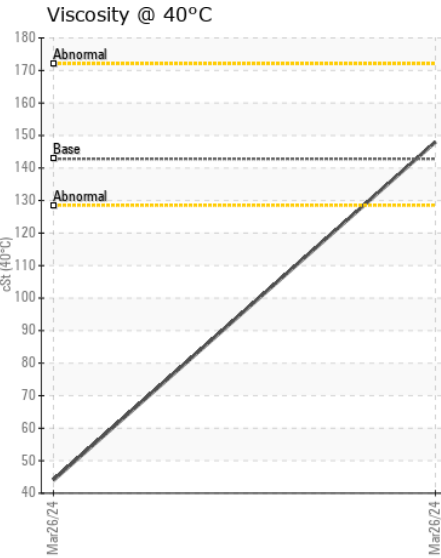
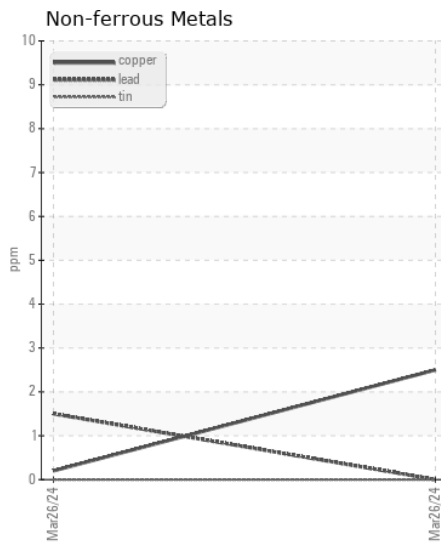
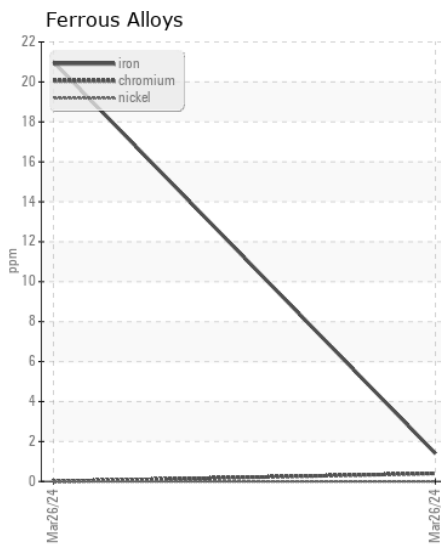
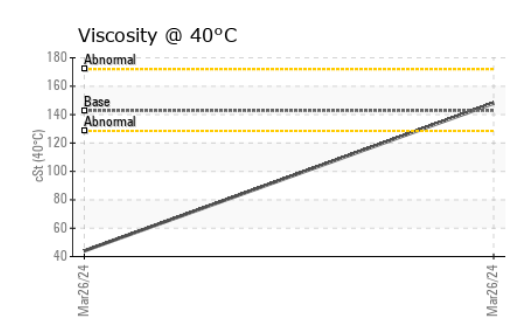
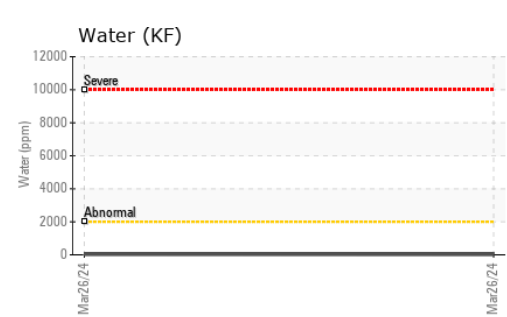
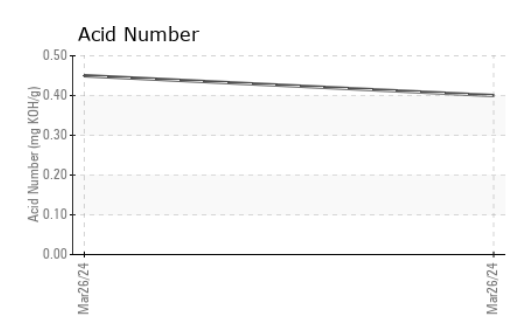
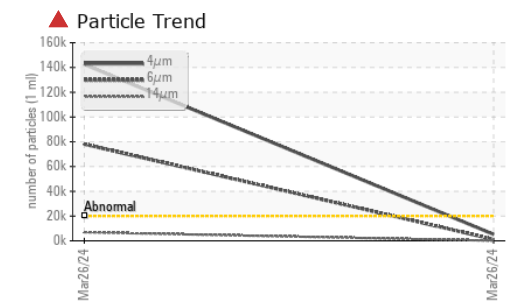
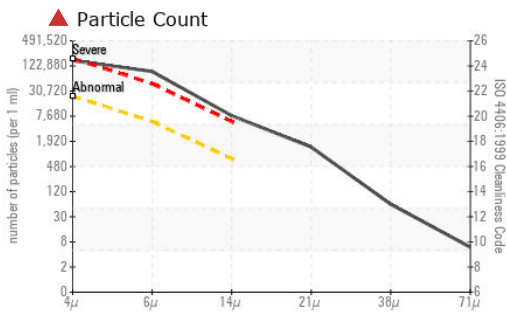
**CONTAMINATION**

There is a high amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible.

**FLUID CONDITION**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

| Test             | UOM      | Method        | Limit/Abn | Current            | History1    | History2 |
|------------------|----------|---------------|-----------|--------------------|-------------|----------|
| Sample Number    |          | Client Info   |           | <b>ST45505</b>     | ST45621     | ---      |
| Sample Date      |          | Client Info   |           | <b>26 Mar 2024</b> | 26 Mar 2024 | ---      |
| Machine Age      | hrs      | Client Info   |           | <b>0</b>           | 0           | ---      |
| Oil Age          | hrs      | Client Info   |           | <b>0</b>           | 0           | ---      |
| Filter Age       | hrs      | Client Info   |           | <b>0</b>           | 0           | ---      |
| Oil Changed      |          | Client Info   |           | <b>N/A</b>         | N/A         | ---      |
| Filter Changed   |          | Client Info   |           | <b>N/A</b>         | N/A         | ---      |
| Sample Status    |          |               |           | <b>SEVERE</b>      | ATTENTION   | ---      |
| PQ               |          | ASTM D8184*   |           | <b>0</b>           | ---         | ---      |
| Iron             | ppm      | ASTM D5185(m) | >200      | <b>21</b>          | 1           | ---      |
| Chromium         | ppm      | ASTM D5185(m) | >15       | <b>0</b>           | <1          | ---      |
| Nickel           | ppm      | ASTM D5185(m) | >15       | <b>0</b>           | 0           | ---      |
| Titanium         | ppm      | ASTM D5185(m) |           | <b>0</b>           | 0           | ---      |
| Silver           | ppm      | ASTM D5185(m) |           | <b>0</b>           | 0           | ---      |
| Aluminum         | ppm      | ASTM D5185(m) | >25       | <b>0</b>           | 0           | ---      |
| Lead             | ppm      | ASTM D5185(m) | >100      | <b>2</b>           | 0           | ---      |
| Copper           | ppm      | ASTM D5185(m) | >200      | <b>&lt;1</b>       | 2           | ---      |
| Tin              | ppm      | ASTM D5185(m) | >25       | <b>0</b>           | 0           | ---      |
| Vanadium         | ppm      | ASTM D5185(m) |           | <b>0</b>           | 0           | ---      |
| White Metal      | scalar   | Visual*       | NONE      | <b>NONE</b>        | NONE        | ---      |
| Yellow Metal     | scalar   | Visual*       | NONE      | <b>NONE</b>        | NONE        | ---      |
| Silicon          | ppm      | ASTM D5185(m) | >50       | <b>8</b>           | 0           | ---      |
| Potassium        | ppm      | ASTM D5185(m) | >20       | <b>&lt;1</b>       | <1          | ---      |
| Water            | %        | ASTM D6304*   | >0.2      | <b>0.002</b>       | 0.003       | ---      |
| ppm Water        | ppm      | ASTM D6304*   | >2000     | <b>23</b>          | 29          | ---      |
| Particles >4µm   |          | ASTM D7647    | >20000    | <b>▲ 142486</b>    | ● 5199      | ---      |
| Particles >6µm   |          | ASTM D7647    | >5000     | <b>▲ 78106</b>     | 1092        | ---      |
| Particles >14µm  |          | ASTM D7647    | >640      | <b>▲ 6877</b>      | 78          | ---      |
| Particles >21µm  |          | ASTM D7647    | >160      | <b>▲ 1228</b>      | 19          | ---      |
| Particles >38µm  |          | ASTM D7647    | >40       | <b>53</b>          | 1           | ---      |
| Particles >71µm  |          | ASTM D7647    | >10       | <b>5</b>           | 0           | ---      |
| Oil Cleanliness  |          | ISO 4406 (c)  | >21/19/16 | <b>▲ 24/23/20</b>  | ● 20/17/13  | ---      |
| Silt             | scalar   | Visual*       | NONE      | <b>NONE</b>        | NONE        | ---      |
| Debris           | scalar   | Visual*       | NONE      | <b>VLITE</b>       | NONE        | ---      |
| Sand/Dirt        | scalar   | Visual*       | NONE      | <b>NONE</b>        | VLITE       | ---      |
| Appearance       | scalar   | Visual*       | NORML     | <b>NORML</b>       | NORML       | ---      |
| Odor             | scalar   | Visual*       | NORML     | <b>NORML</b>       | NORML       | ---      |
| Emulsified Water | scalar   | Visual*       | >0.2      | <b>NEG</b>         | NEG         | ---      |
| Sodium           | ppm      | ASTM D5185(m) |           | <b>&lt;1</b>       | <1          | ---      |
| Boron            | ppm      | ASTM D5185(m) |           | <b>&lt;1</b>       | <1          | ---      |
| Barium           | ppm      | ASTM D5185(m) |           | <b>0</b>           | 0           | ---      |
| Molybdenum       | ppm      | ASTM D5185(m) |           | <b>0</b>           | 0           | ---      |
| Manganese        | ppm      | ASTM D5185(m) |           | <b>0</b>           | 0           | ---      |
| Magnesium        | ppm      | ASTM D5185(m) |           | <b>&lt;1</b>       | 3           | ---      |
| Calcium          | ppm      | ASTM D5185(m) |           | <b>0</b>           | 17          | ---      |
| Phosphorus       | ppm      | ASTM D5185(m) |           | <b>435</b>         | 374         | ---      |
| Zinc             | ppm      | ASTM D5185(m) |           | <b>3</b>           | 461         | ---      |
| Sulfur           | ppm      | ASTM D5185(m) |           | <b>238</b>         | 1155        | ---      |
| Acid Number (AN) | mg KOH/g | ASTM D974*    |           | <b>0.40</b>        | 0.45        | ---      |
| Visc @ 40°C      | cSt      | ASTM D7279(m) | 142.8     | <b>148</b>         | 44.0        | ---      |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : ST45505 **Received** : 15 Apr 2024  
**Lab Number** : 02628826 **Tested** : 18 Apr 2024  
**Unique Number** : 5761958 **Diagnosed** : 18 Apr 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF, PQ, PrtCount )

**KUMI CANADA CORPORATION**  
 55 REAGENS INDUSTRIAL PKWY  
 BRADFORD, ON  
 CA L3Z 0Z9  
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

T:  
F: