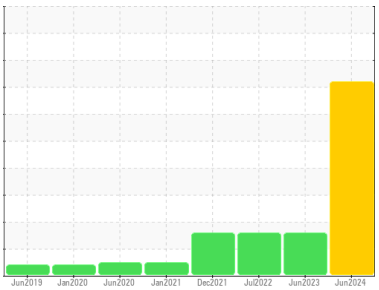
# PROBLEM SUMMARY

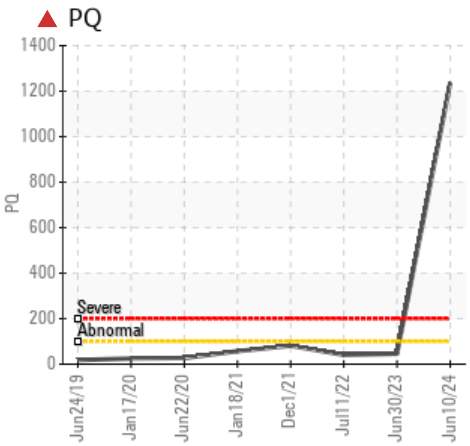
Sample Rating Trend

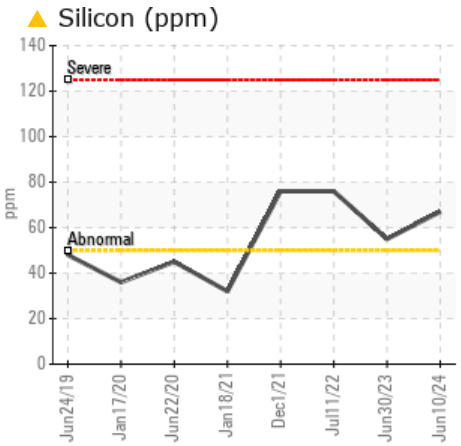


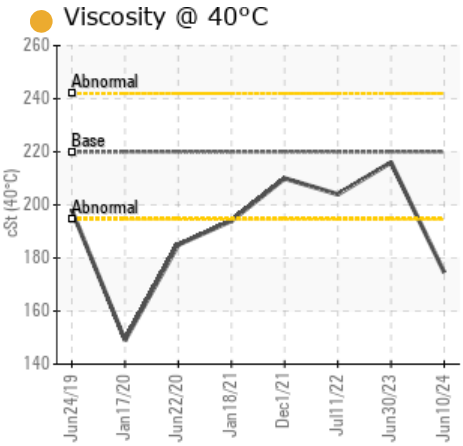

**WEAR**

Machine Id
## H56 PRESS 5
Component
**Gearbox**
Fluid
**MOBIL MOBILGEAR 600 XP 220 (--- GAL)**

## COMPONENT CONDITION SUMMARY




## RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

| Sample Status | | | | SEVERE | ABNORMAL | ABNORMAL |
|---|---|---|---|---|---|---|
| PQ | | ASTM D8184 | | ▲ **1236** | 46 | 41 |
| Silicon | ppm | ASTM D5185m | >50 | ▲ **67** | ▲ 55 | ▲ 76 |
| White Metal | scalar | *Visual | NONE | ▲ **HEAVY** | NONE | LIGHT |


**Customer Id:** ROCROCNC
**Sample No.:** WC0952499
**Lab Number:** 06207979
**Test Package:** IND 2

*To manage this report scan the QR code*

*To discuss the diagnosis or test data:*
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

*To change component or sample information:*
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

## RECOMMENDED ACTIONS

| Action | Status | Date | Done By | Description |
|---|---|---|---|---|
| Inspect Wear Source | --- | --- | ? | We advise that you inspect for the source(s) of wear. |
| Resample | --- | --- | ? | We recommend an early resample to monitor this condition. |

## HISTORICAL DIAGNOSIS

DIRT

**30 Jun 2023 Diag: Don Baldridge**
No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

DIRT

**11 Jul 2022 Diag: Don Baldridge**
No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

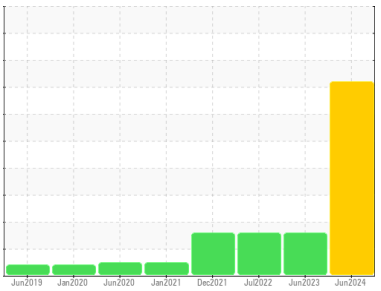
DIRT

**01 Dec 2021 Diag: Jonathan Hester**
No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

# OIL ANALYSIS REPORT

Sample Rating Trend




**WEAR**

Machine Id
## H56 PRESS 5
Component
**Gearbox**
Fluid
**MOBIL MOBILGEAR 600 XP 220 (--- GAL)**

## DIAGNOSIS

**Recommendation**
We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

**Wear**
High concentration of visible metal present. The very high ferrous density (PQ) index indicates that severe wear is occurring.

**Contamination**
Elemental level of silicon (Si) above normal indicating ingress of seal material.

**Fluid Condition**
The oil viscosity is lower than normal. The AN level is acceptable for this fluid.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WC0952499** | WC0716372 | WC0716370 |
| Sample Date | | Client Info | | **10 Jun 2024** | 30 Jun 2023 | 11 Jul 2022 |
| Machine Age | hrs | Client Info | | **0** | 0 | 0 |
| Oil Age | hrs | Client Info | | **0** | 0 | 0 |
| Oil Changed | | Client Info | | **N/A** | N/A | N/A |
| Sample Status | | | | **SEVERE** | ABNORMAL | ABNORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Water | | WC Method | >0.2 | **NEG** | NEG | NEG |

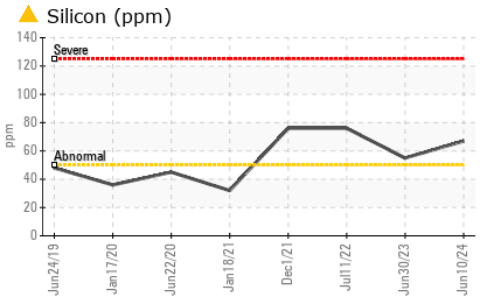
| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| PQ | | ASTM D8184 | | ▲ **1236** | 46 | 41 |
| Iron | ppm | ASTM D5185m | >200 | **51** | 83 | 68 |
| Chromium | ppm | ASTM D5185m | >15 | **0** | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >15 | **0** | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Silver | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | **1** | 2 | <1 |
| Lead | ppm | ASTM D5185m | >100 | **3** | 2 | 2 |
| Copper | ppm | ASTM D5185m | >200 | **22** | 49 | 54 |
| Tin | ppm | ASTM D5185m | >25 | **0** | <1 | 0 |
| Antimony | ppm | ASTM D5185m | >5 | **---** | --- | --- |
| Vanadium | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | **0** | 0 | 0 |

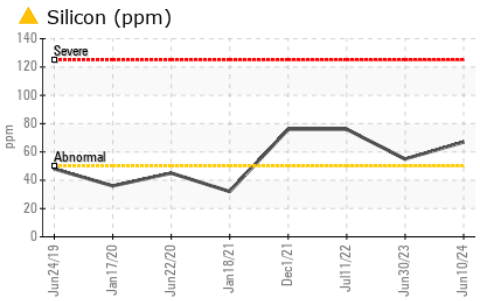
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **6** | 17 | 20 |
| Barium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | **<1** | <1 | 0 |
| Manganese | ppm | ASTM D5185m | | **<1** | 2 | 1 |
| Magnesium | ppm | ASTM D5185m | | **<1** | 0 | <1 |
| Calcium | ppm | ASTM D5185m | | **5** | <1 | 1 |
| Phosphorus | ppm | ASTM D5185m | | **145** | 328 | 257 |
| Zinc | ppm | ASTM D5185m | | **53** | 95 | 92 |
| Sulfur | ppm | ASTM D5185m | | **5670** | 13351 | 9419 |

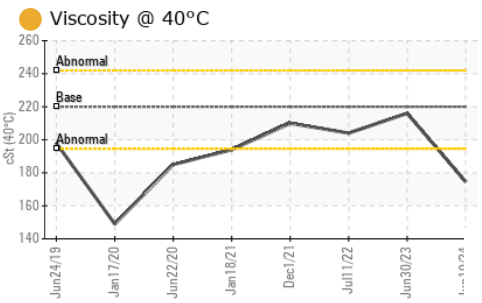
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >50 | ▲ **67** | ▲ 55 | ▲ 76 |
| Sodium | ppm | ASTM D5185m | | **2** | <1 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | **<1** | 2 | <1 |

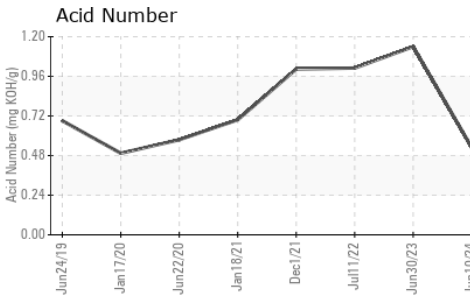
| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | **0.53** | 1.14 | 1.01 |

# OIL ANALYSIS REPORT



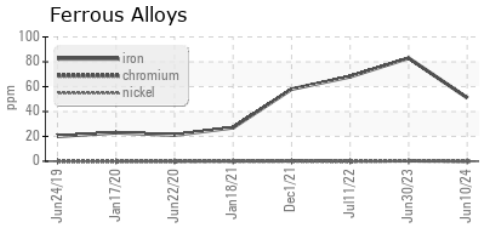



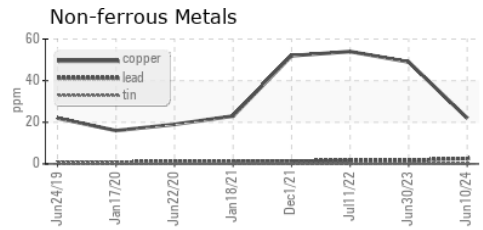

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | ▲ **HEAVY** | NONE | LIGHT |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| 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 | >0.2 | **NEG** | NEG | NEG |
| Free Water | scalar | *Visual | | **NEG** | NEG | NEG |

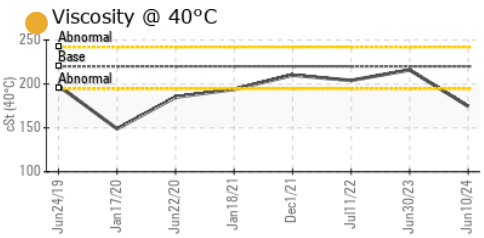
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 220 | ● **174.6** | 216 | 204 |

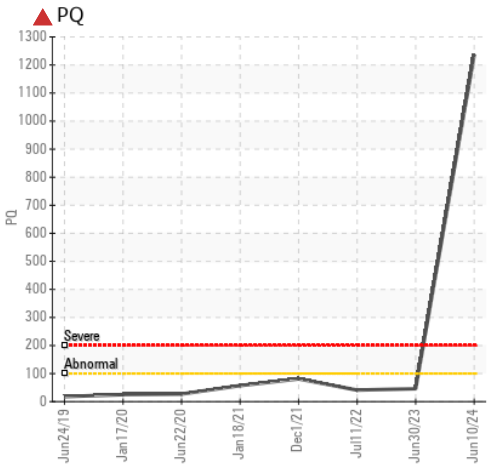
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  | | |
| Bottom | | |  | | |

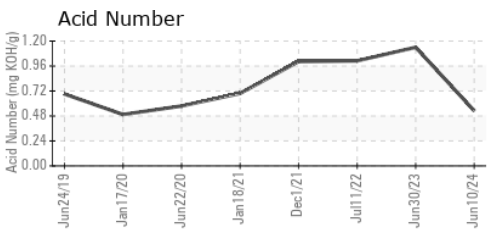
## GRAPHS




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : WC0952499
**Lab Number** : 06207979
**Unique Number** : 11075440
**Test Package** : IND 2 ( Additional Tests: PQ )

**Received** : 12 Jun 2024
**Tested** : 19 Jun 2024
**Diagnosed** : 19 Jun 2024 - Jonathan Hester

*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)*

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