



# OIL ANALYSIS REPORT

|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |



Machine Id  
**MACK GR64F XT2511 (S/N 1M2GR4GC8LM016161)**  
Component  
**Transmission (Auto)**  
Fluid  
**CASTROL TRANSYND 668 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current       | History1 | History2 |
|----------------|-----|-------------|-----------|---------------|----------|----------|
| Sample Number  |     | Client Info |           | DC0031177     | ---      | ---      |
| Sample Date    |     | Client Info |           | 12 Jan 2024   | ---      | ---      |
| Machine Age    | mls | Client Info |           | 133664        | ---      | ---      |
| Oil Age        | mls | Client Info |           | 83000         | ---      | ---      |
| Filter Age     | mls | Client Info |           | 83000         | ---      | ---      |
| Oil Changed    |     | Client Info |           | Changed       | ---      | ---      |
| Filter Changed |     | Client Info |           | Changed       | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b> | ---      | ---      |

## WEAR

All component wear rates are normal.

|              |        |             |      |      |     |     |
|--------------|--------|-------------|------|------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >230 | 102  | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >2   | 0    | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >5   | 0    | --- | --- |
| Titanium     | ppm    | ASTM D5185m | >2   | 0    | --- | --- |
| Silver       | ppm    | ASTM D5185m | >5   | 0    | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >65  | 41   | --- | --- |
| Lead         | ppm    | ASTM D5185m | >55  | 14   | --- | --- |
| Copper       | ppm    | ASTM D5185m | >85  | 29   | --- | --- |
| Tin          | ppm    | ASTM D5185m | >5   | 4    | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | 0    | --- | --- |
| White Metal  | scalar | *Visual     | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE | --- | --- |

## CONTAMINATION

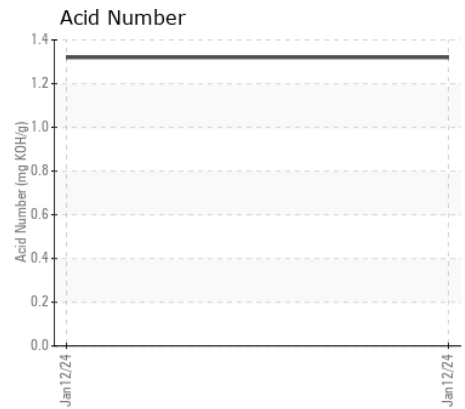
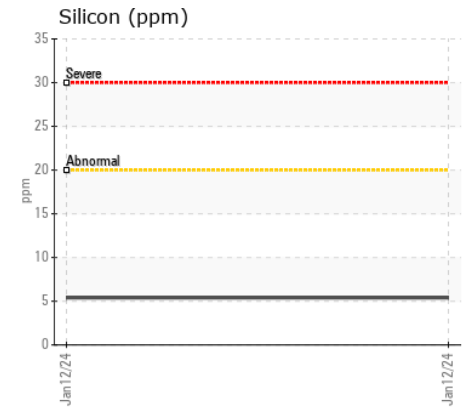
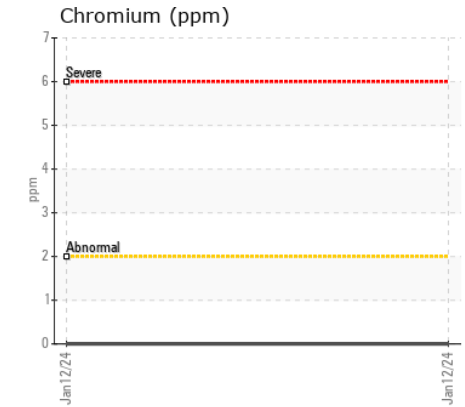
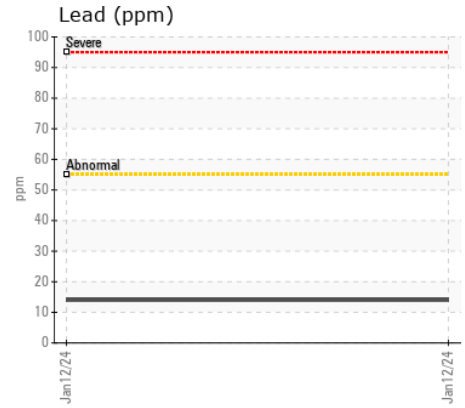
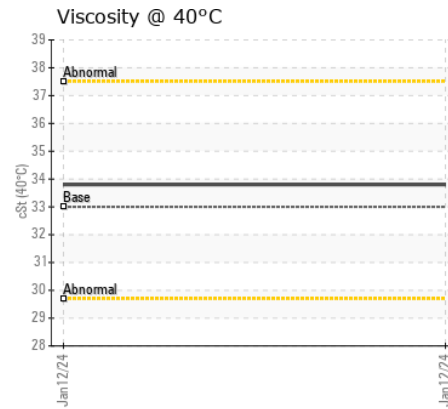
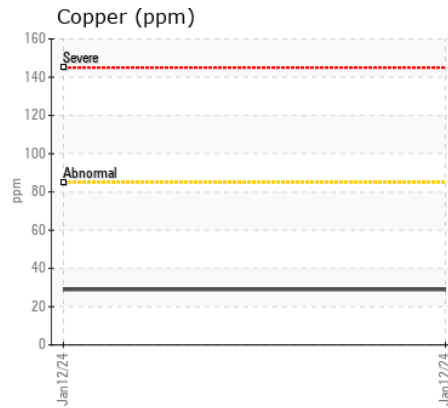
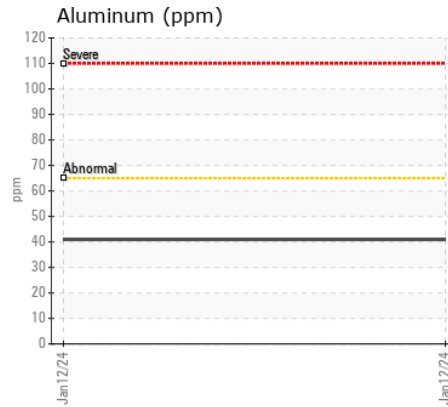
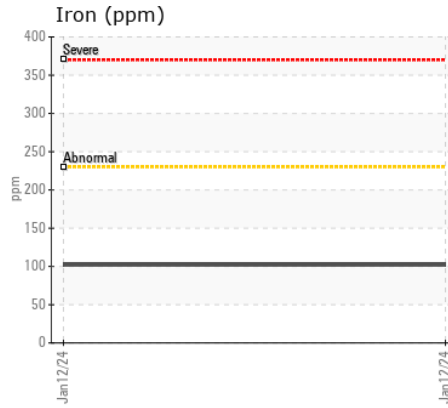
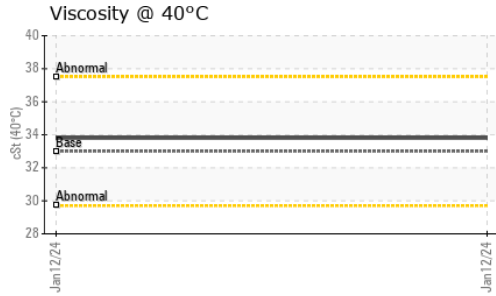
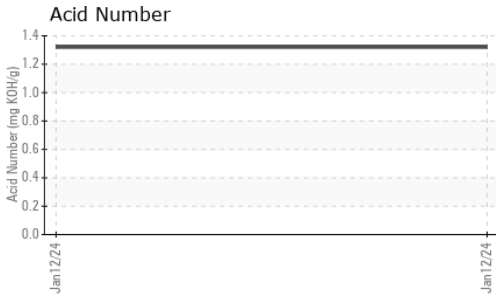
There is no indication of any contamination in the fluid.

|                  |        |             |       |       |     |     |
|------------------|--------|-------------|-------|-------|-----|-----|
| Silicon          | ppm    | ASTM D5185m | >20   | 5     | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | 0     | --- | --- |
| Water            |        | WC Method   | >0.1  | NEG   | --- | --- |
| Silt             | scalar | *Visual     | NONE  | NONE  | --- | --- |
| Debris           | scalar | *Visual     | NONE  | NONE  | --- | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | NONE  | --- | --- |
| Appearance       | scalar | *Visual     | NORML | NORML | --- | --- |
| Odor             | scalar | *Visual     | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual     | >0.1  | NEG   | --- | --- |

## FLUID CONDITION

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

|                  |          |             |    |      |     |     |
|------------------|----------|-------------|----|------|-----|-----|
| Sodium           | ppm      | ASTM D5185m |    | 3    | --- | --- |
| Boron            | ppm      | ASTM D5185m |    | 62   | --- | --- |
| Barium           | ppm      | ASTM D5185m |    | 0    | --- | --- |
| Molybdenum       | ppm      | ASTM D5185m |    | 0    | --- | --- |
| Manganese        | ppm      | ASTM D5185m |    | 2    | --- | --- |
| Magnesium        | ppm      | ASTM D5185m |    | 2    | --- | --- |
| Calcium          | ppm      | ASTM D5185m |    | 99   | --- | --- |
| Phosphorus       | ppm      | ASTM D5185m |    | 217  | --- | --- |
| Zinc             | ppm      | ASTM D5185m |    | 11   | --- | --- |
| Sulfur           | ppm      | ASTM D5185m |    | 1439 | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045  |    | 1.32 | --- | --- |
| Visc @ 40°C      | cSt      | ASTM D445   | 33 | 33.8 | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0031177 **Received** : 16 Jan 2024  
**Lab Number** : 06062146 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10833528 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

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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