



# OIL ANALYSIS REPORT

|                 |          |
|-----------------|----------|
| WEAR            | NORMAL   |
| CONTAMINATION   | ABNORMAL |
| FLUID CONDITION | NORMAL   |

Machine Id  
**15428**  
 Component  
**Rear Gearbox**  
 Fluid  
**GEAR OIL SAE 75W90 (--- QTS)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

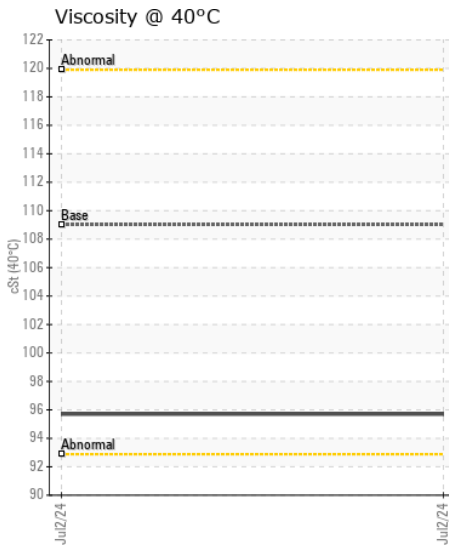
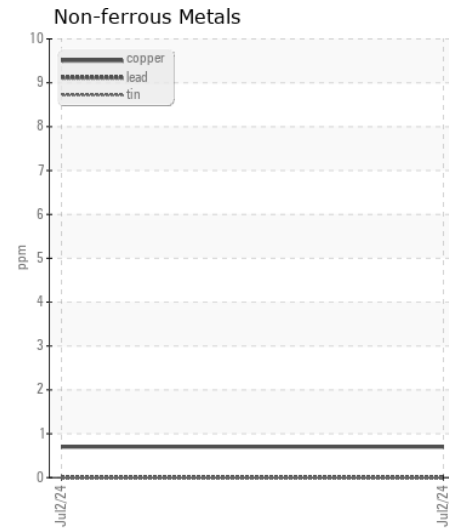
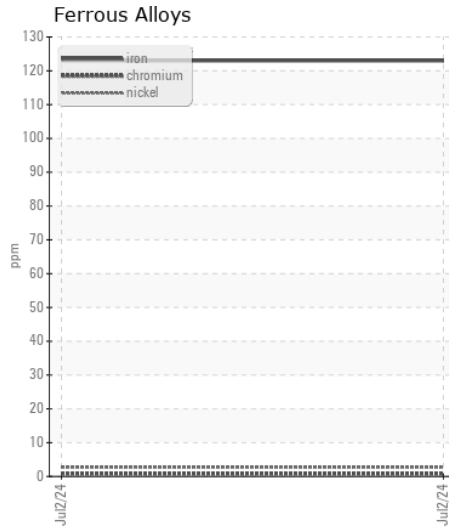
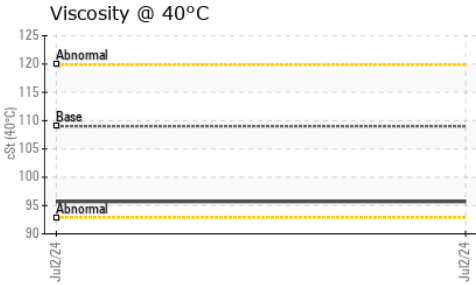
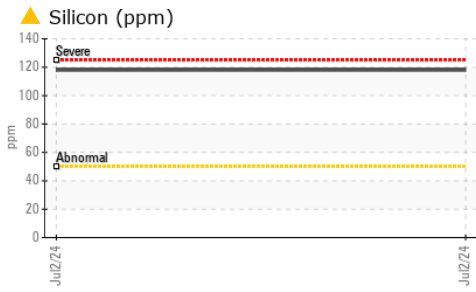
## CONTAMINATION

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

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| Test             | UOM    | Method      | Limit/Abn | Current     | History1 | History2 |
|------------------|--------|-------------|-----------|-------------|----------|----------|
| Sample Number    |        | Client Info |           | WC0950584   | ---      | ---      |
| Sample Date      |        | Client Info |           | 02 Jul 2024 | ---      | ---      |
| Machine Age      | hrs    | Client Info |           | 572         | ---      | ---      |
| Oil Age          | hrs    | Client Info |           | 12103       | ---      | ---      |
| Filter Age       | hrs    | Client Info |           | 0           | ---      | ---      |
| Oil Changed      |        | Client Info |           | N/A         | ---      | ---      |
| Filter Changed   |        | Client Info |           | N/A         | ---      | ---      |
| Sample Status    |        |             |           | ABNORMAL    | ---      | ---      |
| Iron             | ppm    | ASTM D5185m | >200      | 123         | ---      | ---      |
| Chromium         | ppm    | ASTM D5185m | >10       | <1          | ---      | ---      |
| Nickel           | ppm    | ASTM D5185m | >10       | 3           | ---      | ---      |
| Titanium         | ppm    | ASTM D5185m |           | 0           | ---      | ---      |
| Silver           | ppm    | ASTM D5185m |           | 0           | ---      | ---      |
| Aluminum         | ppm    | ASTM D5185m | >25       | 0           | ---      | ---      |
| Lead             | ppm    | ASTM D5185m | >50       | 0           | ---      | ---      |
| Copper           | ppm    | ASTM D5185m | >200      | <1          | ---      | ---      |
| Tin              | ppm    | ASTM D5185m | >10       | 0           | ---      | ---      |
| Vanadium         | ppm    | ASTM D5185m |           | 0           | ---      | ---      |
| White Metal      | scalar | *Visual     | NONE      | NONE        | ---      | ---      |
| Yellow Metal     | scalar | *Visual     | NONE      | NONE        | ---      | ---      |
| Silicon          | ppm    | ASTM D5185m | >50       | ▲ 118       | ---      | ---      |
| Potassium        | ppm    | ASTM D5185m | >20       | 2           | ---      | ---      |
| Water            |        | WC Method   | >0.2      | NEG         | ---      | ---      |
| Silt             | scalar | *Visual     | NONE      | MODER       | ---      | ---      |
| 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     | >0.2      | NEG         | ---      | ---      |
| Sodium           | ppm    | ASTM D5185m |           | 4           | ---      | ---      |
| Boron            | ppm    | ASTM D5185m | 400       | 167         | ---      | ---      |
| Barium           | ppm    | ASTM D5185m | 200       | 0           | ---      | ---      |
| Molybdenum       | ppm    | ASTM D5185m | 12        | <1          | ---      | ---      |
| Manganese        | ppm    | ASTM D5185m |           | 3           | ---      | ---      |
| Magnesium        | ppm    | ASTM D5185m | 12        | <1          | ---      | ---      |
| Calcium          | ppm    | ASTM D5185m | 150       | 17          | ---      | ---      |
| Phosphorus       | ppm    | ASTM D5185m | 1650      | 1072        | ---      | ---      |
| Zinc             | ppm    | ASTM D5185m | 125       | 5           | ---      | ---      |
| Sulfur           | ppm    | ASTM D5185m | 22500     | 26807       | ---      | ---      |
| Visc @ 40°C      | cSt    | ASTM D445   | 109       | 95.7        | ---      | ---      |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0950584  
**Lab Number** : 06233607  
**Unique Number** : 11117100  
**Test Package** : CONST  
**Received** : 11 Jul 2024  
**Tested** : 12 Jul 2024  
**Diagnosed** : 13 Jul 2024 - Don Baldrige

**SULLIVAN EASTERN INC**  
 2860 C SLATER RD  
 MORRISVILLE, NC  
 US 27560

Contact: SCOTT SULLIVAN  
 ssullivan@sullivaneastern.com  
 T: (919)484-8993  
 F: (919)484-2136

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)