



OIL ANALYSIS REPORT

|                 |           |
|-----------------|-----------|
| WEAR            | ATTENTION |
| CONTAMINATION   | ABNORMAL  |
| FLUID CONDITION | ATTENTION |

Area  
**Store 3 - Norton**  
 Machine Id  
**PRIME TECH STUMP GRINDER E60 (S/N 180083)**  
 Component  
**Right Final Drive**  
 Fluid  
**GEAR OIL SAE 90 (--- GAL)**

**RECOMMENDATION**

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

**WEAR**

All component wear rates are normal.

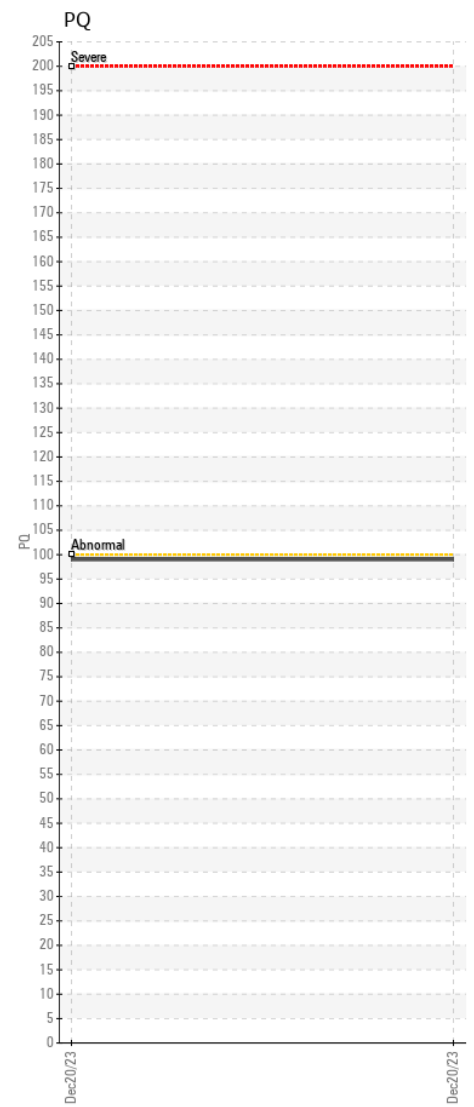
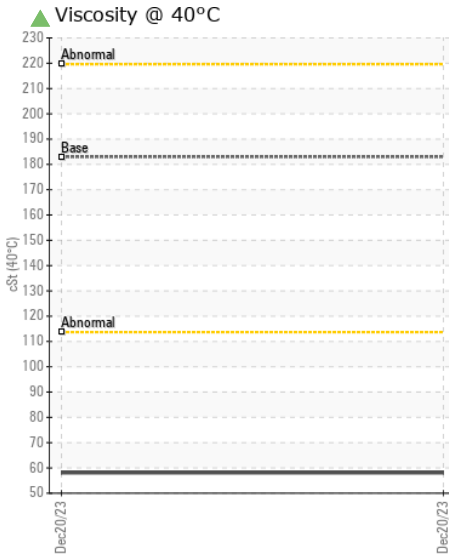
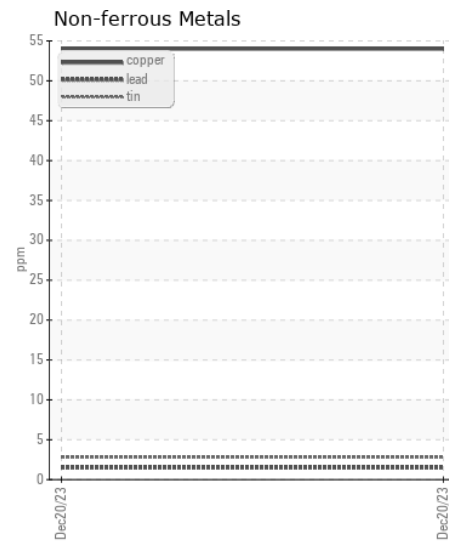
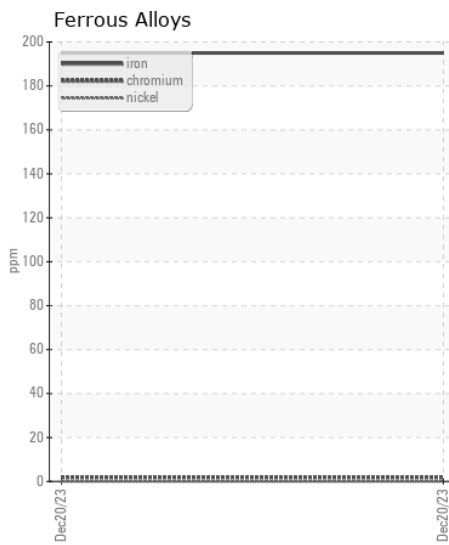
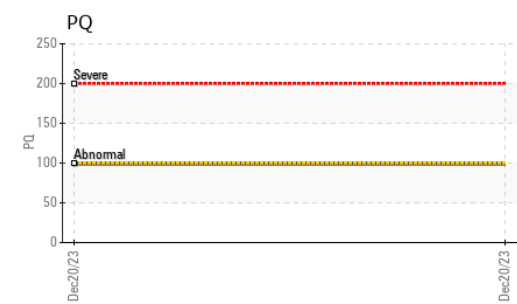
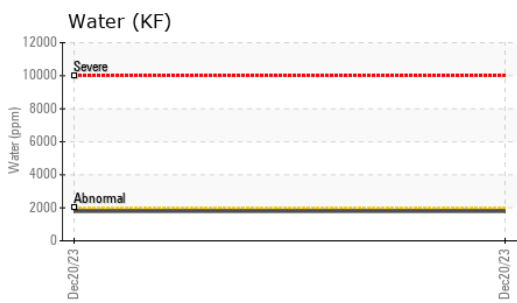
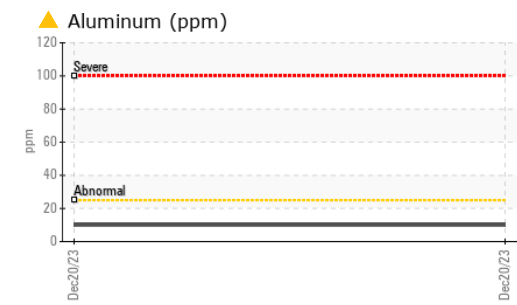
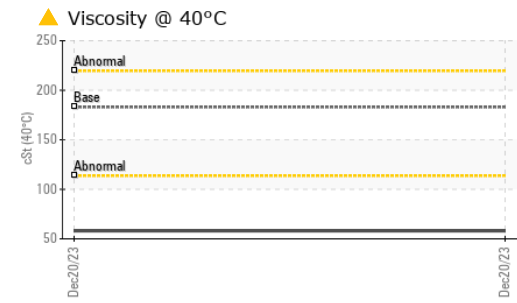
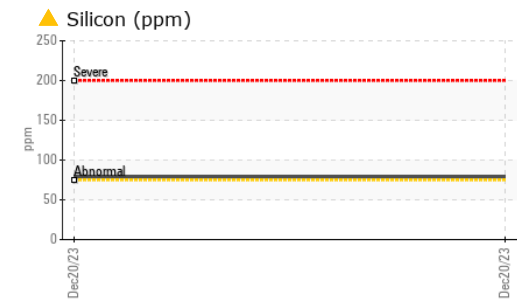
**CONTAMINATION**

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

**FLUID CONDITION**

The oil viscosity is lower than normal. Confirm oil type.

| Test             | UOM    | Method      | Limit/Abn | Current     | History1 | History2 |
|------------------|--------|-------------|-----------|-------------|----------|----------|
| Sample Number    |        | Client Info |           | LEC0047722  | ---      | ---      |
| Sample Date      |        | Client Info |           | 20 Dec 2023 | ---      | ---      |
| Machine Age      | hrs    | Client Info |           | 1619        | ---      | ---      |
| Oil Age          | hrs    | Client Info |           | 300         | ---      | ---      |
| Filter Age       | hrs    | Client Info |           | 0           | ---      | ---      |
| Oil Changed      |        | Client Info |           | Not Changd  | ---      | ---      |
| Filter Changed   |        | Client Info |           | Changed     | ---      | ---      |
| Sample Status    |        |             |           | ABNORMAL    | ---      | ---      |
| PQ               |        | ASTM D8184  |           | 99          | ---      | ---      |
| Iron             | ppm    | ASTM D5185m | >500      | 195         | ---      | ---      |
| Chromium         | ppm    | ASTM D5185m | >10       | 2           | ---      | ---      |
| Nickel           | ppm    | ASTM D5185m | >10       | 0           | ---      | ---      |
| Titanium         | ppm    | ASTM D5185m |           | <1          | ---      | ---      |
| Silver           | ppm    | ASTM D5185m |           | 0           | ---      | ---      |
| Aluminum         | ppm    | ASTM D5185m | >25       | ▲ 10        | ---      | ---      |
| Lead             | ppm    | ASTM D5185m | >25       | 2           | ---      | ---      |
| Copper           | ppm    | ASTM D5185m | >50       | 54          | ---      | ---      |
| Tin              | ppm    | ASTM D5185m | >10       | 3           | ---      | ---      |
| Vanadium         | ppm    | ASTM D5185m |           | 0           | ---      | ---      |
| White Metal      | scalar | *Visual     | NONE      | NONE        | ---      | ---      |
| Yellow Metal     | scalar | *Visual     | NONE      | NONE        | ---      | ---      |
| Silicon          | ppm    | ASTM D5185m | >75       | ▲ 79        | ---      | ---      |
| Potassium        | ppm    | ASTM D5185m | >20       | 3           | ---      | ---      |
| Water            | %      | ASTM D6304  | >0.2      | 0.179       | ---      | ---      |
| ppm Water        | ppm    | ASTM D6304  | >2000     | 1790        | ---      | ---      |
| 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     | >0.2      | 0.2%        | ---      | ---      |
| Sodium           | ppm    | ASTM D5185m |           | 2           | ---      | ---      |
| Boron            | ppm    | ASTM D5185m | 400       | 8           | ---      | ---      |
| Barium           | ppm    | ASTM D5185m | 200       | 0           | ---      | ---      |
| Molybdenum       | ppm    | ASTM D5185m | 12        | 5           | ---      | ---      |
| Manganese        | ppm    | ASTM D5185m |           | 2           | ---      | ---      |
| Magnesium        | ppm    | ASTM D5185m | 12        | 119         | ---      | ---      |
| Calcium          | ppm    | ASTM D5185m | 150       | 3437        | ---      | ---      |
| Phosphorus       | ppm    | ASTM D5185m | 1650      | 1074        | ---      | ---      |
| Zinc             | ppm    | ASTM D5185m | 125       | 1261        | ---      | ---      |
| Sulfur           | ppm    | ASTM D5185m | 22500     | 3986        | ---      | ---      |
| Visc @ 40°C      | cSt    | ASTM D445   | 183       | ▲ 58.1      | ---      | ---      |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0047722 **Received** : 17 Jan 2024  
**Lab Number** : 06063875 **Diagnosed** : 20 Jan 2024  
**Unique Number** : 10835257 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: KF, PQ )

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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