

Machine Id  
**Nordberg 6x16**  
Component  
**Drive End Bearing**  
Fluid  
**{not provided} (3 GAL)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### ▲ Wear

Bearing and/or gear wear is indicated.

### ▲ Contamination

Appearance is hazy. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info |             | <b>PCA0086929</b>  | ---      | ---      |
| Sample Date   | Client Info |             | <b>11 Apr 2024</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Changed   | Client Info |             | <b>N/A</b>         | ---      | ---      |
| Sample Status |             |             | <b>SEVERE</b>      | ---      | ---      |

## WEAR METALS

|          | method | limit/base       | current       | history1 | history2 |
|----------|--------|------------------|---------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >200 | ▲ <b>1941</b> | ---      | ---      |
| Chromium | ppm    | ASTM D5185m >5   | ▲ <b>20</b>   | ---      | ---      |
| Nickel   | ppm    | ASTM D5185m >5   | ▲ <b>5</b>    | ---      | ---      |
| Titanium | ppm    | ASTM D5185m >5   | ▲ <b>11</b>   | ---      | ---      |
| Silver   | ppm    | ASTM D5185m      | <b>0</b>      | ---      | ---      |
| Aluminum | ppm    | ASTM D5185m >25  | ● <b>168</b>  | ---      | ---      |
| Lead     | ppm    | ASTM D5185m >50  | <b>2</b>      | ---      | ---      |
| Copper   | ppm    | ASTM D5185m >150 | ▲ <b>580</b>  | ---      | ---      |
| Tin      | ppm    | ASTM D5185m >10  | <b>0</b>      | ---      | ---      |
| Vanadium | ppm    | ASTM D5185m      | <b>&lt;1</b>  | ---      | ---      |
| Cadmium  | ppm    | ASTM D5185m      | <b>&lt;1</b>  | ---      | ---      |

## ADDITIVES

|            | method | limit/base  | current      | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m | <b>36</b>    | ---      | ---      |
| Barium     | ppm    | ASTM D5185m | <b>0</b>     | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185m | <b>&lt;1</b> | ---      | ---      |
| Manganese  | ppm    | ASTM D5185m | <b>36</b>    | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185m | <b>15</b>    | ---      | ---      |
| Calcium    | ppm    | ASTM D5185m | <b>55</b>    | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185m | <b>214</b>   | ---      | ---      |
| Zinc       | ppm    | ASTM D5185m | <b>322</b>   | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185m | <b>3611</b>  | ---      | ---      |

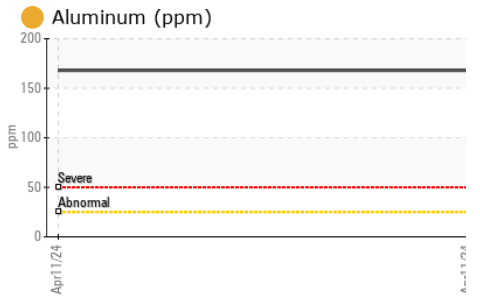
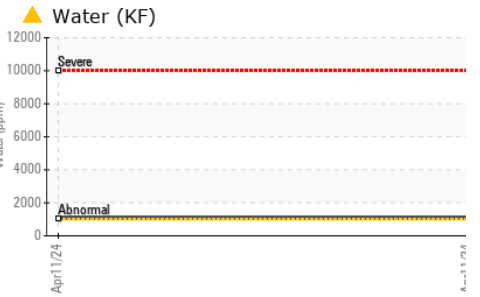
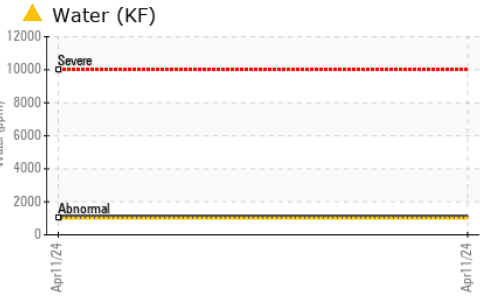
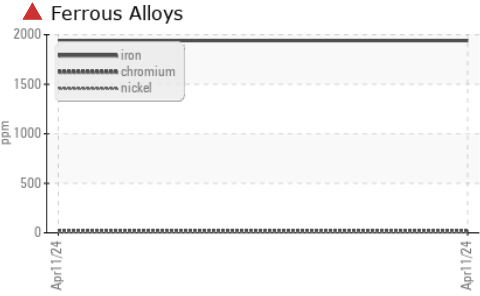
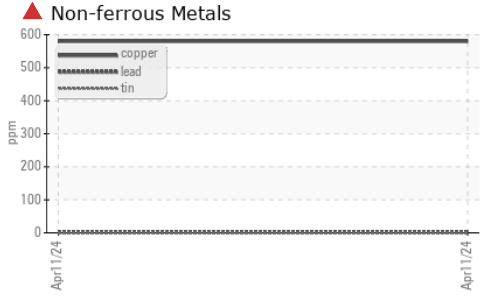
## CONTAMINANTS

|           | method | limit/base       | current        | history1 | history2 |
|-----------|--------|------------------|----------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >25  | ▲ <b>1003</b>  | ---      | ---      |
| Sodium    | ppm    | ASTM D5185m      | <b>10</b>      | ---      | ---      |
| Potassium | ppm    | ASTM D5185m >20  | <b>48</b>      | ---      | ---      |
| Water     | %      | ASTM D6304 >0.1  | ▲ <b>0.107</b> | ---      | ---      |
| ppm Water | ppm    | ASTM D6304 >1000 | ▲ <b>1070</b>  | ---      | ---      |

## VISUAL

|                  | method | limit/base    | current       | history1 | history2 |
|------------------|--------|---------------|---------------|----------|----------|
| White Metal      | scalar | *Visual NONE  | <b>NONE</b>   | ---      | ---      |
| Yellow Metal     | scalar | *Visual NONE  | <b>NONE</b>   | ---      | ---      |
| Precipitate      | scalar | *Visual NONE  | <b>NONE</b>   | ---      | ---      |
| Silt             | scalar | *Visual NONE  | <b>NONE</b>   | ---      | ---      |
| Debris           | scalar | *Visual NONE  | <b>NONE</b>   | ---      | ---      |
| Sand/Dirt        | scalar | *Visual NONE  | <b>NONE</b>   | ---      | ---      |
| Appearance       | scalar | *Visual NORML | ● <b>HAZY</b> | ---      | ---      |
| Odor             | scalar | *Visual NORML | <b>NORML</b>  | ---      | ---      |
| Emulsified Water | scalar | *Visual >0.1  | <b>0.2%</b>   | ---      | ---      |
| Free Water       | scalar | *Visual       | <b>NEG</b>    | ---      | ---      |

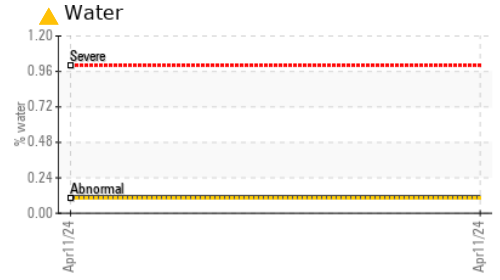
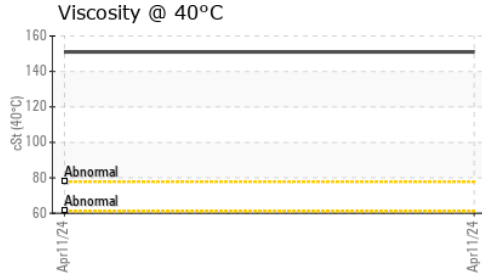
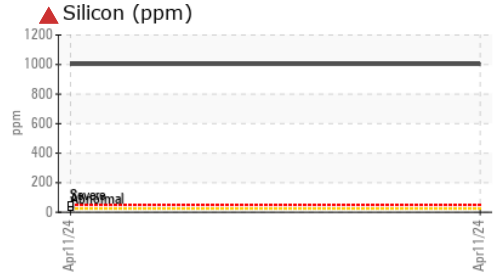
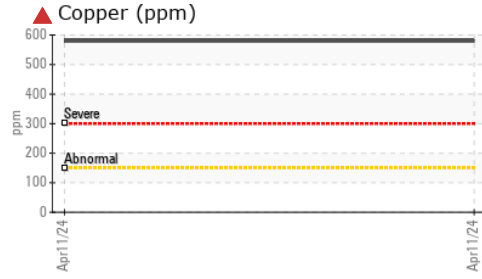
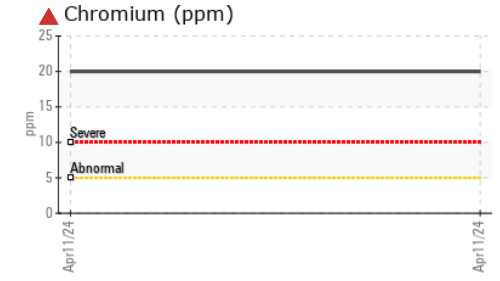
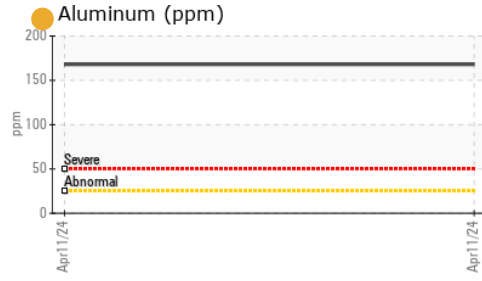
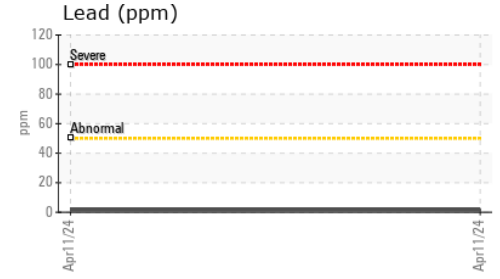
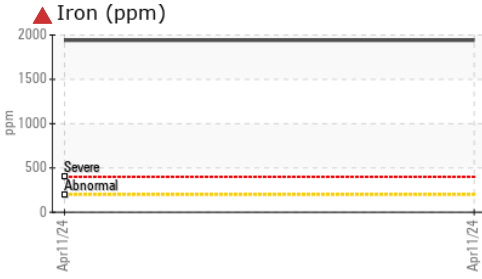
# OIL ANALYSIS REPORT



| FLUID PROPERTIES |     | method    | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt | ASTM D445 |            | 151     | ---      | ---      |

| SAMPLE IMAGES |  | method | limit/base | current  | history1 | history2 |
|---------------|--|--------|------------|----------|----------|----------|
| Color         |  |        |            | no image | no image | no image |
| Bottom        |  |        |            | no image | no image | no image |

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0086929  
**Lab Number** : 06155374  
**Unique Number** : 10990797  
**Test Package** : MOB 1 ( Additional Tests: KF )  
**Received** : 19 Apr 2024  
**Tested** : 24 Apr 2024  
**Diagnosed** : 24 Apr 2024 - Jonathan Hester

**Kemp Quarries - River Valley - Ozark**  
 9446 N Hwy 309  
 Ozark, AR  
 US 72949  
 Contact: COLE KNOX  
 CKNOX@KEMPQUARRIES.COM

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)