



# OIL ANALYSIS REPORT

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

Machine Id  
**HOBBS CRUSHER 1**  
Component  
**Hydraulic System**  
Fluid  
**TDH FLUID SAE 75W80 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

## WEAR

All component wear rates are normal.

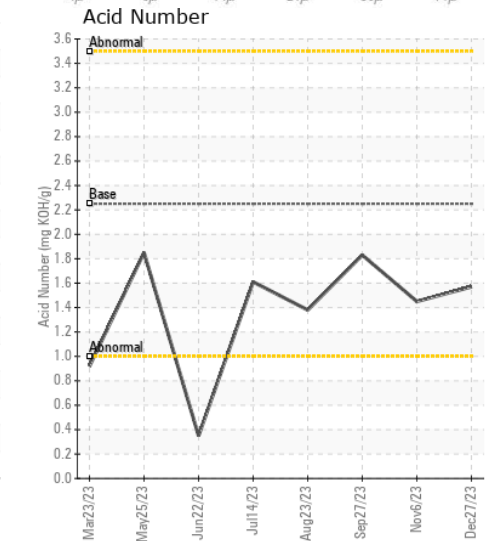
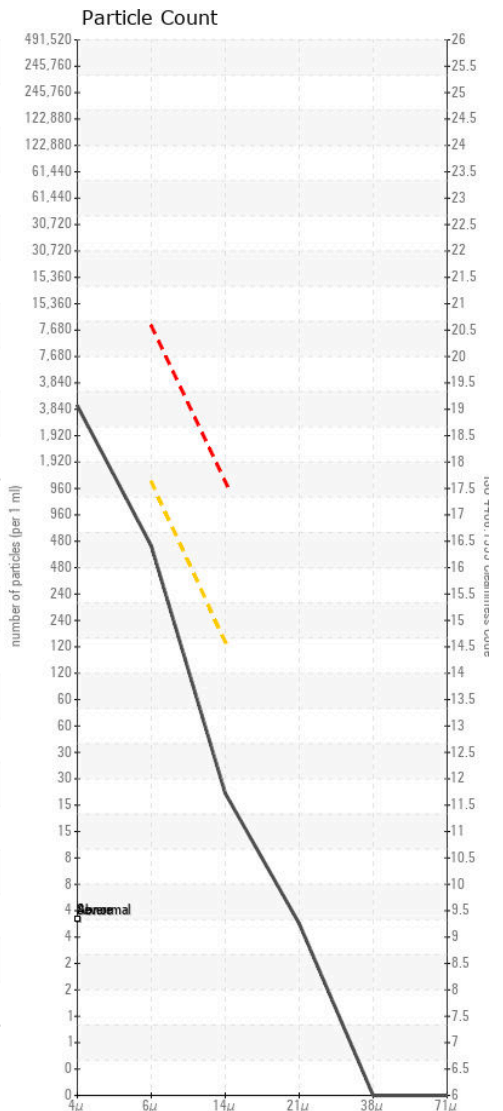
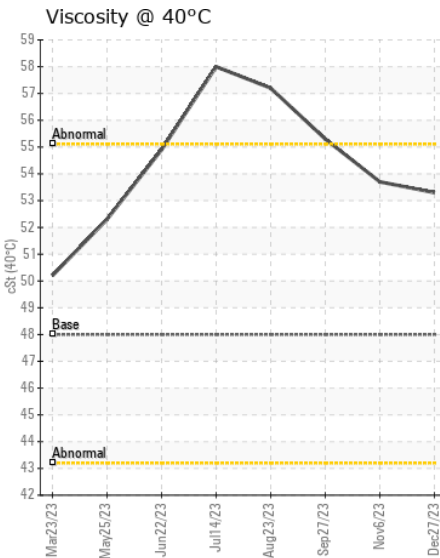
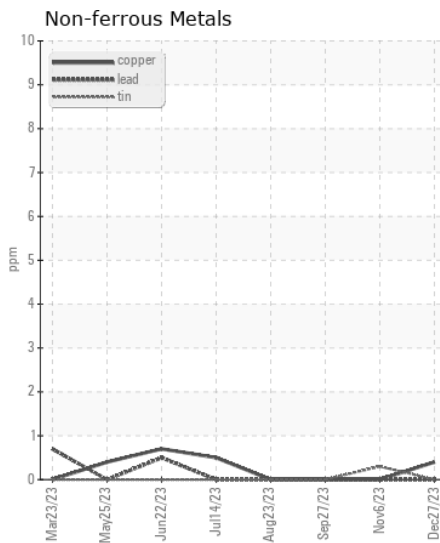
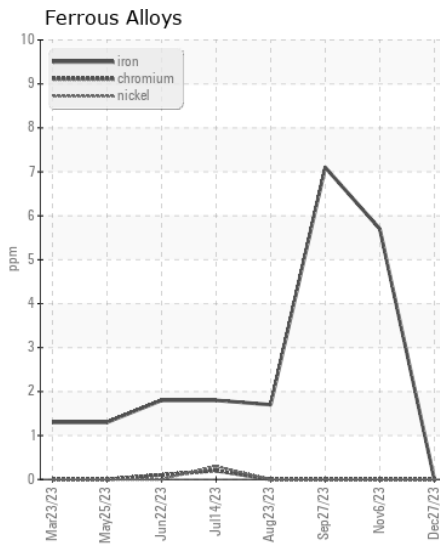
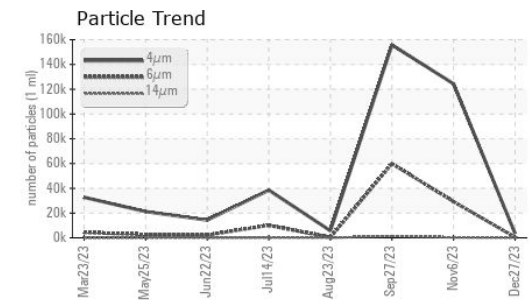
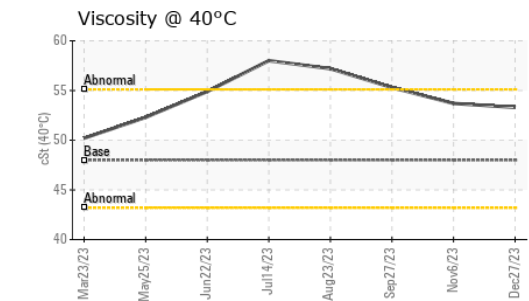
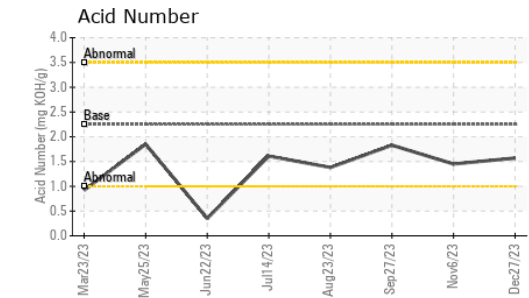
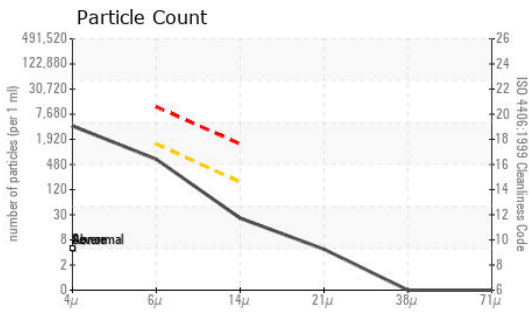
## CONTAMINATION

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

## FLUID CONDITION

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

| Test             | UOM      | Method       | Limit/Abn | Current            | History1    | History2    |
|------------------|----------|--------------|-----------|--------------------|-------------|-------------|
| Sample Number    |          | Client Info  |           | <b>KL0014055</b>   | KL0013133   | KL0012928   |
| Sample Date      |          | Client Info  |           | <b>27 Dec 2023</b> | 06 Nov 2023 | 27 Sep 2023 |
| Machine Age      | hrs      | Client Info  |           | <b>4942</b>        | 45160       | 7435        |
| Oil Age          | hrs      | Client Info  |           | <b>0</b>           | 45160       | 0           |
| Filter Age       | hrs      | Client Info  |           | <b>0</b>           | 0           | 0           |
| Oil Changed      |          | Client Info  |           | <b>N/A</b>         | N/A         | N/A         |
| Filter Changed   |          | Client Info  |           | <b>N/A</b>         | N/A         | N/A         |
| Sample Status    |          |              |           | <b>NORMAL</b>      | SEVERE      | SEVERE      |
| Iron             | ppm      | ASTM D5185m  | >20       | <b>0</b>           | 6           | 7           |
| Chromium         | ppm      | ASTM D5185m  | >10       | <b>0</b>           | 0           | 0           |
| Nickel           | ppm      | ASTM D5185m  | >10       | <b>0</b>           | 0           | 0           |
| Titanium         | ppm      | ASTM D5185m  |           | <b>0</b>           | 0           | 0           |
| Silver           | ppm      | ASTM D5185m  |           | <b>0</b>           | <1          | 0           |
| Aluminum         | ppm      | ASTM D5185m  | >10       | <b>0</b>           | <1          | <1          |
| Lead             | ppm      | ASTM D5185m  | >10       | <b>0</b>           | 0           | 0           |
| Copper           | ppm      | ASTM D5185m  | >75       | <b>&lt;1</b>       | 0           | 0           |
| Tin              | ppm      | ASTM D5185m  | >10       | <b>0</b>           | <1          | 0           |
| Vanadium         | ppm      | ASTM D5185m  |           | <b>0</b>           | 0           | 0           |
| White Metal      | scalar   | *Visual      | NONE      | <b>NONE</b>        | NONE        | NONE        |
| Yellow Metal     | scalar   | *Visual      | NONE      | <b>NONE</b>        | NONE        | NONE        |
| Silicon          | ppm      | ASTM D5185m  | >20       | <b>2</b>           | 7           | 6           |
| Potassium        | ppm      | ASTM D5185m  | >20       | <b>0</b>           | 0           | 0           |
| Water            |          | WC Method    | >0.1      | <b>NEG</b>         | NEG         | NEG         |
| Particles >4µm   |          | ASTM D7647   |           | <b>3510</b>        | 124380      | 155797      |
| Particles >6µm   |          | ASTM D7647   | >1300     | <b>561</b>         | 29261       | 59948       |
| Particles >14µm  |          | ASTM D7647   | >160      | <b>22</b>          | 308         | 1317        |
| Particles >21µm  |          | ASTM D7647   | >40       | <b>4</b>           | 45          | 190         |
| Particles >38µm  |          | ASTM D7647   | >10       | <b>0</b>           | 1           | 2           |
| Particles >71µm  |          | ASTM D7647   | >3        | <b>0</b>           | 0           | 0           |
| Oil Cleanliness  |          | ISO 4406 (c) | >17/14    | <b>16/12</b>       | 22/15       | 23/18       |
| Silt             | scalar   | *Visual      | NONE      | <b>NONE</b>        | NONE        | NONE        |
| Debris           | scalar   | *Visual      | NONE      | <b>NONE</b>        | NONE        | NONE        |
| Sand/Dirt        | scalar   | *Visual      | NONE      | <b>NONE</b>        | NONE        | NONE        |
| Appearance       | scalar   | *Visual      | NORML     | <b>NORML</b>       | NORML       | NORML       |
| Odor             | scalar   | *Visual      | NORML     | <b>NORML</b>       | NORML       | NORML       |
| Emulsified Water | scalar   | *Visual      | >0.1      | <b>NEG</b>         | NEG         | NEG         |
| Sodium           | ppm      | ASTM D5185m  |           | <b>2</b>           | 0           | 0           |
| Boron            | ppm      | ASTM D5185m  | 10        | <b>0</b>           | <1          | 0           |
| Barium           | ppm      | ASTM D5185m  | 10        | <b>0</b>           | 0           | 0           |
| Molybdenum       | ppm      | ASTM D5185m  | 10        | <b>0</b>           | 0           | 0           |
| Manganese        | ppm      | ASTM D5185m  |           | <b>0</b>           | <1          | 0           |
| Magnesium        | ppm      | ASTM D5185m  | 100       | <b>56</b>          | 72          | 73          |
| Calcium          | ppm      | ASTM D5185m  | 3500      | <b>3107</b>        | 3356        | 3293        |
| Phosphorus       | ppm      | ASTM D5185m  | 1150      | <b>1003</b>        | 1094        | 1098        |
| Zinc             | ppm      | ASTM D5185m  | 1150      | <b>1085</b>        | 1271        | 1289        |
| Sulfur           | ppm      | ASTM D5185m  | 5000      | <b>3187</b>        | 3677        | 3793        |
| Acid Number (AN) | mg KOH/g | ASTM D8045   | 2.25      | <b>1.57</b>        | 1.45        | 1.83        |
| Visc @ 40°C      | cSt      | ASTM D445    | 48        | <b>53.3</b>        | 53.7        | 55.3        |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0014055 **Received** : 08 Jan 2024  
**Lab Number** : 06054761 **Diagnosed** : 09 Jan 2024  
**Unique Number** : 10820710 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

**RAMIREZ & SONS**  
 3404 N ENTERPRISE DR  
 HOBBS, NM  
 US 88240  
 Contact: Rick Davidson  
 rickdavidson.rs@gmail.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)

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F: