

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

#### Machine Id **CR1227** Component **4 Winch** Filuid **GEAR OIL ISO 220 (--- GAL)**

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

#### WEAR

All component wear rates are normal.

### CONTAMINATION

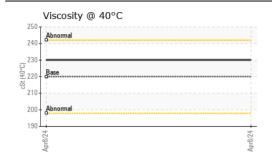
There is no indication of any contamination in the oil.

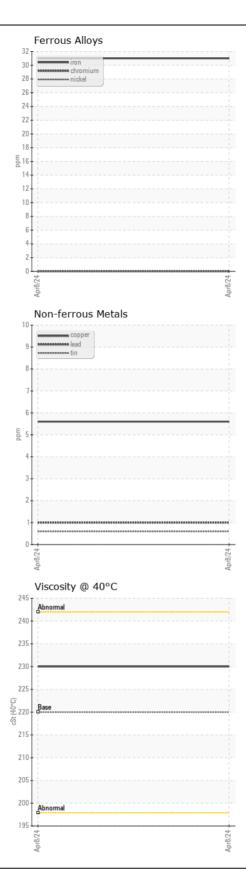
## FLUID CONDITION

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

| Test   | UOM   | Method   | Limit/Abn   | Current  | History1 | History2     |
|--|---|--|---|--|----------|--------------|
| Sample Number  |   | Client Info  |   | WC0892939  |          |              |
| Sample Date  |   | Client Info  |   | 08 Apr 2024  |          |              |
| Machine Age  | hrs   | Client Info  |   | 1994   |          |              |
| Oil Age  | hrs   | Client Info  |   | 1000   |          |              |
| Filter Age   | hrs   | Client Info  |   | 0  |          |              |
| Oil Changed  |   | Client Info  |   | N/A  |          |              |
| Filter Changed   |   | Client Info  |   | Changed  |          |              |
| Sample Status  |   |  |   | NORMAL   |          |              |
| lran   |   | ASTM D5185m  | . 150   | 31   |          |              |
| Iron<br>Chromium   | ppm   |  | >150  | -  |          |              |
|  | ppm   | ASTM D5185m  | >10   | 0  |          |              |
| Nickel<br>Titanium   | ppm   | ASTM D5185m  | >10   | 0  |          |              |
| Silver   | ppm   | ASTM D5185m<br>ASTM D5185m   |   | -  |          |              |
|  | ppm   | ASTM D5185m  | . 5   | 0  |          |              |
| Aluminum   | ppm   |  | >5<br>>15   | <1<br>1  |          |              |
| Lead   | ppm   | ASTM D5185m  |   | -  |          |              |
| Copper   | ppm   | ASTM D5185m  | >80   | 6  |          |              |
| Tin  | ppm   | ASTM D5185m  |   | <1   |          |              |
| Vanadium   | ppm   | ASTM D5185m  |   | 0  |          |              |
| White Metal  | scalar  | *Visual  | NONE  | NONE   |          |              |
|  |   |  |   |  |          |              |
| Yellow Metal   | scalar  | *Visual  | NONE  | NONE   |          |              |
| Silicon  | ppm   | ASTM D5185m  | >25   | NONE<br>5  |          |              |
|  |   |  |   |  |          |              |
| Silicon  | ppm   | ASTM D5185m  | >25   | 5  |          |              |
| Silicon<br>Potassium   | ppm   | ASTM D5185m<br>ASTM D5185m   | >25<br>>20  | 5<br>3   |          |              |
| Silicon<br>Potassium<br>Water  | ppm<br>ppm  | ASTM D5185m<br>ASTM D5185m<br>WC Method  | >25<br>>20<br>>0.2  | 5<br>3<br>NEG  |          |              |
| Silicon<br>Potassium<br>Water<br>Silt  | ppm<br>ppm<br>scalar  | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual   | >25<br>>20<br>>0.2<br>NONE  | 5<br>3<br>NEG<br>LIGHT   |          |              |
| Silicon<br>Potassium<br>Water<br>Silt<br>Debris  | ppm<br>ppm<br>scalar<br>scalar  | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual<br>*Visual  | >25<br>>20<br>>0.2<br>NONE<br>NONE  | 5<br>3<br>NEG<br>LIGHT<br>NONE   |          | <br><br>     |
| Silicon<br>Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt   | ppm<br>ppm<br>scalar<br>scalar<br>scalar  | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual   | >25<br>>20<br>>0.2<br>NONE<br>NONE<br>NONE  | 5<br>3<br>NEG<br>LIGHT<br>NONE<br>NONE   |          | <br><br><br> |
| Silicon<br>Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance   | ppm<br>ppm<br>scalar<br>scalar<br>scalar<br>scalar  | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual  | >25<br>>20<br>>0.2<br>NONE<br>NONE<br>NONE<br>NORML   | 5<br>3<br>NEG<br>LIGHT<br>NONE<br>NONE<br>NORML  |          | <br><br><br> |
| Silicon<br>Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water   | ppm<br>ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar  | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual  | >25<br>>20<br>>0.2<br>NONE<br>NONE<br>NONE<br>NORML<br>NORML  | 5<br>3<br>NEG<br>LIGHT<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG  |          |              |
| Silicon<br>Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium   | ppm<br>ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar  | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m   | >25<br>>20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.2  | 5<br>3<br>NEG<br>LIGHT<br>NONE<br>NORE<br>NORML<br>NEG<br>3  |          |              |
| Silicon<br>Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron  | ppm<br>ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>gpm                                 | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m   | >25<br>>20<br>>0.2<br>NONE<br>NORME<br>NORML<br>>0.2  | 5<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>3  |          |              |
| Silicon<br>Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium  | ppm<br>ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm                          | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m  | >25<br>>20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.2  | 5<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>3<br>3                                   |          |              |
| Silicon<br>Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum                                      | ppm<br>ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm                          | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m   | >25<br>>20<br>>0.2<br>NONE<br>NORME<br>NORML<br>>0.2  | 5<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>3<br>3<br>1<br>0                         |          |              |
| Silicon<br>Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese                         | ppm<br>ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm                   | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m  | >25<br>>20<br>>0.2<br>NONE<br>NORME<br>NORML<br>>0.2<br>50<br>15<br>15  | 5<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>3<br>3<br>1<br>0<br>1                    |          |              |
| Silicon<br>Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium            | ppm<br>ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm               | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m                               | >25<br>>20<br>>0.2<br>NONE<br>NONE<br>NORML<br>>0.2<br>50<br>15<br>15   | 5<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>3<br>3<br>1<br>0<br>1<br>2               |          |              |
| Silicon<br>Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium | ppm<br>ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm        | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m                               | >25<br>>20<br>>0.2<br>NONE<br>NORML<br>NORML<br>>0.2<br>50<br>15<br>15<br>50<br>50  | 5<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>3<br>3<br>1<br>0<br>1<br>2<br>26         |          |              |
| Silicon<br>Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium | ppm<br>ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm        | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m | <ul> <li>&gt;25</li> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NORME</li> <li>NORML</li> <li>&gt;0.2</li> <li>50</li> <li>50</li></ul> | 5<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>3<br>1<br>0<br>1<br>2<br>2<br>26<br>371  |          |              |
| Silicon<br>Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium | ppm<br>ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m | <ul> <li>&gt;25</li> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NORME</li> <li>NORML</li> <li>&gt;0.2</li> <li>50</li> <li>15</li> <li>15</li> <li>50</li> <li>50</li> <li>50</li> <li>350</li> <li>100</li> </ul>  | 5<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>3<br>1<br>0<br>1<br>2<br>26<br>371<br>51 |          |              |
| Silicon<br>Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium | ppm<br>ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm        | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m | <ul> <li>&gt;25</li> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NORME</li> <li>NORML</li> <li>&gt;0.2</li> <li>50</li> <li>50</li></ul> | 5<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>3<br>1<br>0<br>1<br>2<br>2<br>26<br>371  |          |              |

Contact/Location: DARIN FISHER - BUCPOC





**BUCKNER - POCASSET** 1281 US 81 POCASSET, OK US 73079

T:

F:

Lab Number : 06152687 Unique Number : 10982765 Certificate L2367

Diagnosed : 18 Apr 2024 - Wes Davis Test Package : CONST Contact: DARIN FISHER 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)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Tested

: 17 Apr 2024

: 18 Apr 2024

: WC0892939

Report Id: BUCPOC [WUSCAR] 06152687 (Generated: 04/18/2024 20:37:00) Rev: 1

Laboratory

Sample No.

Contact/Location: DARIN FISHER - BUCPOC Page 2 of 2