

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

#### Machine Id **PIERCE TRUCK 1** Component **Hydraulic System** Fluid

{not provided} (--- GAL)

RECOMMENDATION

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

#### WEAR

All component wear rates are normal.

### CONTAMINATION

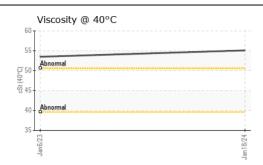
There is no indication of any contamination in the oil.

## FLUID CONDITION

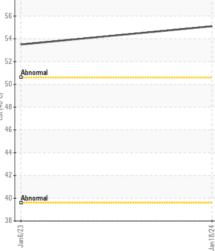
The condition of the oil is acceptable for the time in service.

| Test   | UOM   | Method   | Limit/Abn   | Current   | History1  | History2 |
|--|---|--|---|---|---|----------|
| Sample Number  |   | Client Info  |   | WC0890513   | WC0767715   |          |
| Sample Date  |   | Client Info  |   | 18 Jan 2024   | 06 Jan 2023   |          |
| Machine Age  | mls   | Client Info  |   | 33023   | 0   |          |
| Oil Age  | mls   | Client Info  |   | 0   | 0   |          |
| Filter Age   | mls   | Client Info  |   | 0   | 0   |          |
| Oil Changed  |   | Client Info  |   | N/A   | Not Changd  |          |
| Filter Changed   |   | Client Info  |   | N/A   | Not Changd  |          |
| Sample Status  |   |  |   | NORMAL  | ABNORMAL  |          |
|  |   |  | 00  | •   | 4   |          |
| Iron   | ppm   | ASTM D5185m  | >20   | 0   | <1  |          |
| Chromium   | ppm   | ASTM D5185m  | >10   | <1  | 0   |          |
| Nickel   | ppm   | ASTM D5185m  | >10   | 0   | 0   |          |
| Titanium   | ppm   | ASTM D5185m  |   | 0   | <1  |          |
| Silver   | ppm   | ASTM D5185m  | 10  | 0   | 0   |          |
| Aluminum   | ppm   | ASTM D5185m  | >10   | 0   | 0   |          |
| Lead   | ppm   | ASTM D5185m  | >10   | 0   | <1  |          |
| Copper   | ppm   | ASTM D5185m  | >75   | 7   | 23  |          |
| Tin  | ppm   | ASTM D5185m  | >10   | 0   | 0   |          |
| Vanadium   | ppm   | ASTM D5185m  | NONE  | 0   | 0   |          |
| White Metal  | scalar  | *Visual  | NONE  | NONE  | NONE  |          |
| Yellow Metal   |   |  |   |   |   |          |
|  | scalar  | *Visual  | NONE  | NONE  | NONE  |          |
| Silicon  | ppm   | ASTM D5185m  | >20   | 0   | 1   |          |
|  |   |  |   |   |   |          |
| Silicon  | ppm   | ASTM D5185m  | >20   | 0   | 1   |          |
| Silicon<br>Potassium   | ppm   | ASTM D5185m<br>ASTM D5185m   | >20<br>>20  | 0   | 1<br>0  |          |
| Silicon<br>Potassium<br>Water  | ppm<br>ppm  | ASTM D5185m<br>ASTM D5185m<br>WC Method  | >20<br>>20<br>>20<br>>0.1                           | 0<br>0<br>NEG   | 1<br>0<br>NEG   |          |
| Silicon<br>Potassium<br>Water<br>Silt  | ppm<br>ppm<br>scalar  | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual   | >20<br>>20<br>>0.1<br>NONE                          | 0<br>0<br>NEG<br>NONE   | 1<br>0<br>NEG<br>NONE   | <br><br> |
| 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  | >20<br>>20<br>>0.1<br>NONE<br>NONE                  | 0<br>0<br>NEG<br>NONE<br>LIGHT  | 1<br>0<br>NEG<br>NONE<br>MODER  | <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  | >20<br>>20<br>>0.1<br>NONE<br>NONE<br>NONE          | 0<br>0<br>NEG<br>NONE<br>LIGHT<br>NONE  | 1<br>0<br>NEG<br>NONE<br>MODER<br>NONE  |          |
| 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  | >20<br>>20<br>>0.1<br>NONE<br>NONE<br>NONE<br>NORML | 0<br>0<br>NEG<br>NONE<br>LIGHT<br>NONE<br>NORML   | 1<br>0<br>NEG<br>NONE<br>MODER<br>NONE<br>NORML   |          |
| 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  | >20<br>>20<br>>0.1<br>NONE<br>NONE<br>NONE<br>NORML | 0<br>0<br>NEG<br>NONE<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG   | 1<br>0<br>NEG<br>NONE<br>MODER<br>NONE<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<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   | >20<br>>20<br>>0.1<br>NONE<br>NONE<br>NONE<br>NORML | 0<br>0<br>NEG<br>NONE<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>0  | 1<br>0<br>NEG<br>NONE<br>MODER<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<br>Boron  | ppm<br>ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>gppm                                | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m   | >20<br>>20<br>>0.1<br>NONE<br>NONE<br>NONE<br>NORML | 0<br>0<br>NEG<br>NONE<br>LIGHT<br>NORML<br>NORML<br>NEG<br>0<br>0   | 1<br>0<br>NEG<br>NONE<br>MODER<br>NORML<br>NORML<br>NEG<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  | 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  | >20<br>>20<br>>0.1<br>NONE<br>NONE<br>NONE<br>NORML | 0<br>0<br>NEG<br>NONE<br>LIGHT<br>NORML<br>NORML<br>NORML<br>NEG<br>0<br>0  | 1<br>0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>2<br>12   |          |
| 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   | >20<br>>20<br>>0.1<br>NONE<br>NONE<br>NONE<br>NORML | 0<br>0<br>NEG<br>NONE<br>LIGHT<br>NORML<br>NORML<br>NEG<br>0<br>0<br><1<br>0  | 1<br>0<br>NEG<br>NONE<br>MODER<br>NORML<br>NORML<br>NEG<br><1<br>2<br>12<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                         | 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  | >20<br>>20<br>>0.1<br>NONE<br>NONE<br>NONE<br>NORML | 0<br>0<br>NEG<br>NONE<br>LIGHT<br>NORML<br>NORML<br>NEG<br>0<br>0<br><1<br>0<br>0<br><1   | 1<br>0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>2<br>12<br>12<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>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m  | >20<br>>20<br>>0.1<br>NONE<br>NONE<br>NONE<br>NORML | 0<br>0<br>NEG<br>NONE<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>c1<br>0<br>c1<br>0<br>c1                                      | 1<br>0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>2<br>12<br>2<br>12<br>2<br>12<br>5  |          |
| 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<br>ppm        | ASTM D5185m<br>ASTM D5185m<br>WC Method<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  | >20<br>>20<br>>0.1<br>NONE<br>NONE<br>NONE<br>NORML | 0<br>0<br>NEG<br>NONE<br>LIGHT<br>NORML<br>NORML<br>NEG<br>0<br>2<br>0<br><1<br>0<br><1<br>1<br>186                                   | 1<br>0<br>NEG<br>NONE<br>MODER<br>NORML<br>NORML<br>NORML<br>2<br>12<br>2<br>12<br>2<br>12<br>5<br>163                                    |          |
| 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                | >20<br>>20<br>>0.1<br>NONE<br>NONE<br>NONE<br>NORML | 0<br>0<br>NEG<br>NONE<br>LIGHT<br>NORML<br>NORML<br>NEG<br>0<br>c1<br>0<br>c1<br>c1<br>c1<br>186<br>471                               | 1<br>0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>(1<br>2<br>12<br>(1<br>2<br>(1<br>5<br>(1<br>5<br>163<br>480                    |          |
| 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 | >20<br>>20<br>>0.1<br>NONE<br>NONE<br>NONE<br>NORML | 0<br>0<br>NEG<br>NONE<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>c1<br>0<br>c1<br>0<br>c1<br>1<br>0<br>c1<br>186<br>471<br>535 | 1<br>0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>2<br>12<br>2<br>12<br>2<br>12<br>3<br>12<br>12<br>3<br>12<br>3<br>12<br>3<br>12 |          |
| 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                | >20<br>>20<br>>0.1<br>NONE<br>NONE<br>NONE<br>NORML | 0<br>0<br>NEG<br>NONE<br>LIGHT<br>NORML<br>NORML<br>NEG<br>0<br>c1<br>0<br>c1<br>c1<br>c1<br>186<br>471                               | 1<br>0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>(1<br>2<br>12<br>(1<br>2<br>(1<br>5<br>(1<br>5<br>163<br>480                    |          |

Submitted By: RANDY PRICE



Ferrous Alloys 10 mqq 0 an Non-ferrous Metals 24 22 lead 20 18 16 E 12 10 an 18/24 Viscosity @ 40°C 58 51 54 52 50 () 0+0+0 48 ŝ





Sample No. : WC0890513 Received :08 Feb 2024 9375 CORPORATE DR Lab Number : 06084069 :09 Feb 2024 SELMA, TX Tested Unique Number : 10871514 Diagnosed : 09 Feb 2024 - Wes Davis US 78154 Test Package : FLEET Contact: Service Manager Certificate L2367 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

Report Id: SELSELTX [WUSCAR] 06084069 (Generated: 02/09/2024 22:48:15) Rev: 1

Laboratory

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Submitted By: RANDY PRICE
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SELMA FIRE DEPT

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