

## WEAR SEVERE CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

566

Machine Id **53.170L []** Component **Right Chain Case** Fluid **MOBIL MOBILTRANS AST 30 (--- GAL)** 

RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

**WEAR** 

Gear wear is indicated.

## CONTAMINATION

Elemental level of silicon (Si) above normal indicating ingress of seal material.

## FLUID CONDITION

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

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| Test  | UOM  | Method   | Limit/Abn  | Current  | History1   | History2   |
|---|--|--|--|--|--|--|
| Sample Number   |  | Client Info  |  | WC0873975  | WC0800860  | WC0741823  |
| Sample Date   |  | Client Info  |  | 03 Jan 2024  | 06 Jun 2023  | 13 Dec 2022  |
| Machine Age   | hrs  | Client Info  |  | 2023   | 1416   | 703  |
| Oil Age   | hrs  | Client Info  |  | 1000   | 1416   | 703  |
| Filter Age  | hrs  | Client Info  |  | 0  | 0  | 0  |
| Oil Changed   |  | Client Info  |  | Changed  | Not Changd   | Not Changd   |
| Filter Changed  |  | Client Info  |  | N/A  | N/A  | N/A  |
| Sample Status   |  |  |  | SEVERE   | NORMAL   | NORMAL   |
| Iron  | ppm  | ASTM D5185m  | >632   | <b>•</b> 1206  | 513  | 563  |
| Chromium  | ppm  | ASTM D5185m  | >3   | 2  | 2  | 1  |
| Nickel  | ppm  | ASTM D5185m  | >3   | <1   | 0  | <1   |
| Titanium  | ppm  | ASTM D5185m  |  | 1  | <1   | <1   |
| Silver  | ppm  | ASTM D5185m  |  | 0  | 0  | 0  |
| Aluminum  | ppm  | ASTM D5185m  | >19  | 4  | 6  | 3  |
| Lead  | ppm  | ASTM D5185m  | >6   | 0  | 0  | 1  |
| Copper  | ppm  | ASTM D5185m  | >46  | 4  | 2  | 4  |
| Tin   | ppm  | ASTM D5185m  | >3   | 0  | <1   | 3  |
| Vanadium  | ppm  | ASTM D5185m  |  | 0  | 0  | <1   |
| White Metal   | scalar   | *Visual  | NONE   | MODER  | NONE   | MODER  |
| Yellow Metal  | scalar   | *Visual  | NONE   | NONE   | NONE   | NONE   |
|   |  |  |  |  |  |  |
| Silicon   | ppm  | ASTM D5185m  | >82  | <b>a</b> 82  | 48   | 64   |
| Silicon<br>Potassium  | ppm<br>ppm   | ASTM D5185m<br>ASTM D5185m   | >82<br>>20   | ▲ 82<br>8  | 48<br>3  | 64<br>6  |
| Silicon<br>Potassium<br>Water   | ppm<br>ppm   | ASTM D5185m<br>ASTM D5185m<br>WC Method  | >82<br>>20<br>>0.2   | ▲ 82<br>8<br>NEG   | 48<br>3<br>NEG   | 64<br>6<br>NEG   |
| Silicon<br>Potassium<br>Water<br>Silt   | ppm<br>ppm<br>scalar   | ASTM D5185m<br>ASTM D5185m<br>WC Method<br>*Visual   | >82<br>>20<br>>0.2<br>NONE                                   | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> </ul>   | 48<br>3<br>NEG<br>LIGHT  | 64<br>6<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  | >82<br>>20<br>>0.2<br>NONE<br>NONE                           | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> </ul>   | 48<br>3<br>NEG<br>LIGHT<br>NONE  | 64<br>6<br>NEG<br>LIGHT<br>NONE  |
| 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   | >82<br>>20<br>>0.2<br>NONE<br>NONE<br>NONE                   | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NONE</li> </ul>   | 48<br>3<br>NEG<br>LIGHT<br>NONE<br>NONE  | 64<br>6<br>NEG<br>LIGHT<br>NONE<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  | >82<br>>20<br>>0.2<br>NONE<br>NONE<br>NONE<br>NORML          | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> </ul>  | 48<br>3<br>NEG<br>LIGHT<br>NONE<br>NONE<br>NORML   | 64<br>6<br>NEG<br>LIGHT<br>NONE<br>NONE<br>NORML   |
| Silicon<br>Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor  | ppm<br>ppm<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   | >82<br>>20<br>>0.2<br>NONE<br>NONE<br>NONE<br>NORML          | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> </ul>   | 48<br>3<br>NEG<br>LIGHT<br>NONE<br>NONE<br>NORML<br>NORML  | 64<br>6<br>NEG<br>LIGHT<br>NONE<br>NONE<br>NORML<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  | >82<br>>20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.2 | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NEG</li> </ul>   | 48<br>3<br>NEG<br>LIGHT<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG   | 64<br>6<br>NEG<br>LIGHT<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>scalar<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   | >82<br>>20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.2 | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>6</li> </ul>   | 48<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3  | 64<br>6<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<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   | 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   | >82<br>>20<br>>0.2<br>NONE<br>NORME<br>NORML<br>>0.2         | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NEG</li> <li>6</li> <li>62</li> </ul>  | 48<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>49  | 64<br>6<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>5<br>68  |
| 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  | >82<br>>20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.2 | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>6</li> <li>62</li> <li>48</li> </ul>   | 48<br>3<br>NEG<br>LIGHT<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>49<br>50  | 64<br>6<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>5<br>68<br>76  |
| 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>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>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m  | >82<br>>20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.2 | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>6</li> <li>62</li> <li>48</li> <li>40</li> </ul>   | 48<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>49<br>50<br>27  | 64<br>6<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>5<br>68<br>76<br>41  |
| 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>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   | >82<br>>20<br>>0.2<br>NONE<br>NORME<br>NORML<br>>0.2         | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>6</li> <li>62</li> <li>48</li> <li>40</li> <li>13</li> </ul>   | 48<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>49<br>50<br>27<br>6   | 64<br>6<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>5<br>68<br>76<br>41<br>7                                       |
| 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                                   | >82<br>>20<br>>0.2<br>NONE<br>NONE<br>NORML<br>>0.2          | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>6</li> <li>62</li> <li>48</li> <li>40</li> <li>13</li> <li>455</li> </ul>  | 48<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>49<br>50<br>27<br>6<br>324  | 64<br>6<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>5<br>68<br>76<br>41<br>7<br>521                                |
| 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<br>ASTM D5185m                               | >82<br>>20<br>>0.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.2 | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>6</li> <li>62</li> <li>48</li> <li>40</li> <li>13</li> <li>455</li> <li>1609</li> </ul>  | 48<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>49<br>50<br>27<br>6<br>27<br>6<br>324<br>1125                       | 64<br>6<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>5<br>68<br>76<br>41<br>7<br>521<br>1701                        |
| 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>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m                               | >82<br>>20<br>>0.2<br>NONE<br>NORML<br>NORML<br>>0.2         | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>6</li> <li>62</li> <li>48</li> <li>40</li> <li>13</li> <li>455</li> <li>1609</li> <li>856</li> </ul>                             | 48<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>49<br>50<br>27<br>6<br>27<br>6<br>324<br>1125<br>649                | 64<br>6<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>5<br>68<br>76<br>41<br>7<br>521<br>1701<br>994                 |
| 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>Malybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc                              | ppm<br>scalar<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     | >82<br>>20<br>>0.2<br>NONE<br>NONE<br>NORML<br>>0.2          | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NORML</li> <li>100</li> <li>48</li> <li>40</li> <li>13</li> <li>455</li> <li>1609</li> <li>856</li> <li>1110</li> </ul>                       | 48<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NORML<br>3<br>3<br>49<br>50<br>27<br>6<br>324<br>1125<br>649<br>795             | 64<br>6<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>5<br>68<br>76<br>41<br>7<br>521<br>1701<br>994<br>1246         |
| 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>Boron<br>Barium<br>Malybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur | ppm<br>scalar<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>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m | >82<br>>20<br>>0.2<br>NONE<br>NONE<br>NORML<br>>0.2          | <ul> <li>82</li> <li>8</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>6</li> <li>62</li> <li>48</li> <li>40</li> <li>13</li> <li>455</li> <li>1609</li> <li>856</li> <li>1110</li> <li>3027</li> </ul> | 48<br>3<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>3<br>49<br>50<br>27<br>6<br>27<br>6<br>324<br>1125<br>649<br>795<br>2479 | 64<br>6<br>NEG<br>LIGHT<br>NONE<br>NORML<br>NORML<br>NEG<br>5<br>68<br>76<br>41<br>7<br>521<br>1701<br>994<br>1246<br>4317 |

Report Id: SHEWIC [WUSCAR] 06061565 (Generated: 01/17/2024 23:34:42) Rev: 2

Submitted By: BOBBY JONES



SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS US 67213 Contact: SHAWN SOUTH shawn.south@sherwood.net T: x: 106:2012) F: x:



 Centificate L2367
 Test Package
 : CONST

 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)

Recieved

Diagnosed

: 16 Jan 2024

: 17 Jan 2024

Diagnostician : Don Baldridge

: WC0873975

:06061565

: 10832947

Sample No.

Lab Number

Unique Number

Submitted By: BOBBY JONES

Page 2 of 2