

#### Machine Id U190115B Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 68 (--- GAL)

# RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

### CONTAMINATION

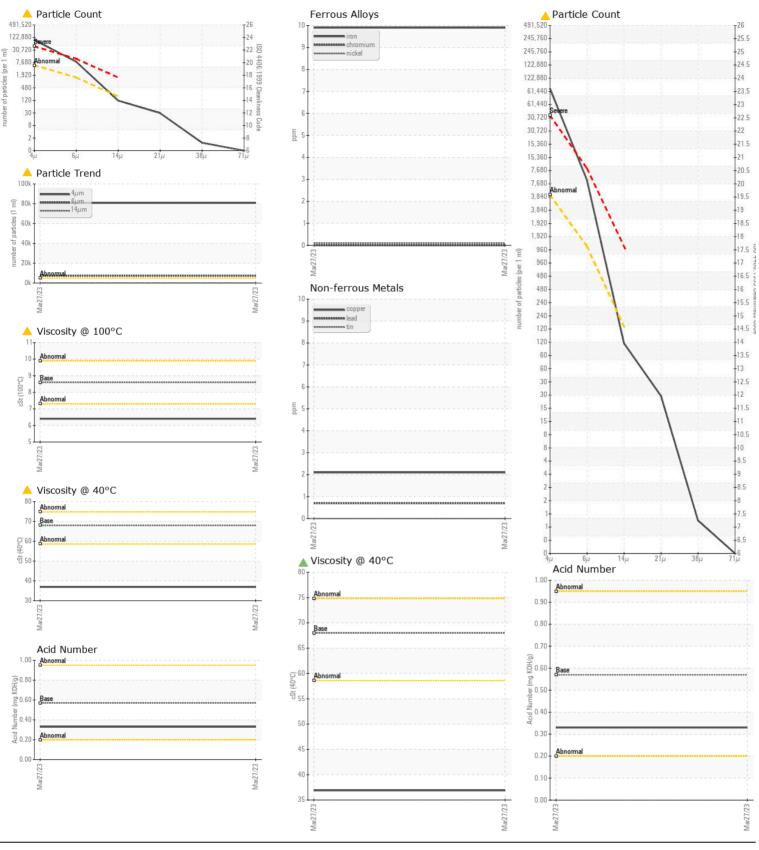
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

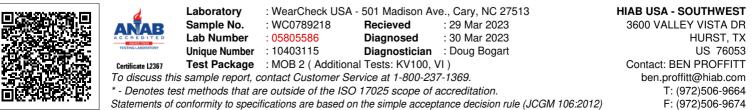
. . . . . . . . . . . . . . . . . .

## FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

TestUOMMethodLimit/AbnCurrentHistory1History2Sample NumberClient InfoWC0789218Sample DateClient Info27 Mar 2023Machine AgehrsClient Info273Oil AgehrsClient Info273Filter AgehrsClient Info273Oil ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusASTM D5185m >2010IronppmASTM D5185m >100NickelppmASTM D5185m >10<1NickelppmASTM D5185m >101SilverppmASTM D5185m >101AluminumppmASTM D5185m >101LeadppmASTM D5185m >101VanadiumppmASTM D5185m >100VanadiumppmASTM D5185m >100VanadiumppmASTM D5185m >100VanadiumppmASTM D5185m >100VanadiumppmASTM D5185m >100Vanadiumppm<
Sample NumberClient InfoWC0789218Sample DateClient Info27 Mar 2023Machine AgehrsClient Info273Oil AgehrsClient Info273Filter AgehrsClient Info273Oil ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusKBNORMALIronppmASTM D5185m<>2010NickelppmASTM D5185m<>100NickelppmASTM D5185m<>10<1SilverppmASTM D5185m<>101AluminumppmASTM D5185m<>101LeadppmASTM D5185m<>10<1VanadiumppmASTM D5185m<>100VanadiumppmASTM D5185m<>100VanadiumppmASTM D5185m<>100VanadiumppmASTM D5185m<>100VanadiumppmASTM D5185m<>100Vhite Metalscalar*VisualNONENONE </th
Sample DateClient Info27 Mar 2023Machine AgehrsClient Info273Oil AgehrsClient Info273Filter AgehrsClient Info273Oil ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusKast D5185m<>2010IronppmASTM D5185m<>2010NickelppmASTM D5185m<>10NickelppmASTM D5185m<>10<1SilverppmASTM D5185m<>101AluminumppmASTM D5185m<>101LeadppmASTM D5185m<>10<1CopperppmASTM D5185m<>10<1TinppmASTM D5185m<>100VanadiumppmASTM D5185m<>100VanadiumppmASTM D5185m<>100White Metalscalar*VisualNONENONEVanadiumppmASTM D5185mVanadiumppmASTM D
Machine AgehrsClient Info273Oil AgehrsClient Info273Filter AgehrsClient Info273Oil ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusClient InfoNot ChangdIronppmASTM D5185m >2010ChromiumppmASTM D5185m >100NickelppmASTM D5185m >10<1TitaniumppmASTM D5185m >10<1SilverppmASTM D5185m >101AluminumppmASTM D5185m >101LeadppmASTM D5185m >101CopperppmASTM D5185m >10<1TinppmASTM D5185m >10<1VanadiumppmASTM D5185m >100White Metalscalar*VisualNONENONE
Oil AgehrsClient Info273Filter AgehrsClient Info273Oil ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusKabNORMALIronppmASTM D5185m >2010ChromiumppmASTM D5185m >100NickelppmASTM D5185m >10<1TitaniumppmASTM D5185m >10<1SilverppmASTM D5185m >101AluminumppmASTM D5185m >101LeadppmASTM D5185m >10<1CopperppmASTM D5185m >100TinppmASTM D5185m >100VanadiumppmASTM D5185m >100White Metalscalar*VisualNONENONE
Filter AgehrsClient Info273Oil ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusClient InfoNot ChangdIronppmASTM D5185m >2010ChromiumppmASTM D5185m >100NickelppmASTM D5185m >10<1NickelppmASTM D5185m >10<1SilverppmASTM D5185m >10<1AluminumppmASTM D5185m >101LeadppmASTM D5185m >101CopperppmASTM D5185m >10<1TinppmASTM D5185m >10<1VanadiumppmASTM D5185m >100White Metalscalar*VisualNONENONE
Oil ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusClient InfoNot ChangdIronppmASTM D5185m>2010ChromiumppmASTM D5185m>100NickelppmASTM D5185m>10ctNickelppmASTM D5185m>10ctTitaniumppmASTM D5185m0ctAluminumppmASTM D5185m>101AluminumppmASTM D5185m>101LeadppmASTM D5185m>10ctTinppmASTM D5185m>100VanadiumppmASTM D5185m>100White Metalscalar*VisualNONENONE
Filter Changed  Client Info  Not Changd      Sample Status  ABNORMAL      Iron  ppm  ASTM D5185m  >20  10      Iron  ppm  ASTM D5185m  >10  0      Chromium  ppm  ASTM D5185m  >10  0      Nickel  ppm  ASTM D5185m  >10  <1      Titanium  ppm  ASTM D5185m  0  <1      Silver  ppm  ASTM D5185m  >10  1      Aluminum  ppm  ASTM D5185m  >10  1      Lead  ppm  ASTM D5185m  >10  1      Tin  ppm  ASTM D5185m  >10       Vanadium  ppm  ASTM D5185m  >10  0      Wh
Sample Status  ABNORMAL     Iron  ppm  ASTM D5185m  >20  10     Chromium  ppm  ASTM D5185m  >10  0     Nickel  ppm  ASTM D5185m  >10      Nickel  ppm  ASTM D5185m  >10      Titanium  ppm  ASTM D5185m  >10      Silver  ppm  ASTM D5185m  >10      Aluminum  ppm  ASTM D5185m  >10  1      Copper  ppm  ASTM D5185m  >10  1      Tin  ppm  ASTM D5185m  >10       Vanadium  ppm  ASTM D5185m  >10       Vanadium  ppm  ASTM D5185m  >10  0      White Metal  scalar  *Visual  NONE
Iron  ppm  ASTM D5185m  >20  10      Chromium  ppm  ASTM D5185m  >10  0      Nickel  ppm  ASTM D5185m  >10  c1      Titanium  ppm  ASTM D5185m  >10  c1      Silver  ppm  ASTM D5185m  0  c1      Aluminum  ppm  ASTM D5185m  >10  1      Lead  ppm  ASTM D5185m  >10  1      Copper  ppm  ASTM D5185m  >10  c1      Tin  ppm  ASTM D5185m  >10  c1      Vanadium  ppm  ASTM D5185m  >10  0      White Metal  scalar  *Visual  NONE  NONE
Chromium  ppm  ASTM D5185m  >10  0      Nickel  ppm  ASTM D5185m  >10  <1      Titanium  ppm  ASTM D5185m  <1      Silver  ppm  ASTM D5185m  <1      Aluminum  ppm  ASTM D5185m  >10  1      Lead  ppm  ASTM D5185m  >10  1      Copper  ppm  ASTM D5185m  >10  <1      Tin  ppm  ASTM D5185m  >10  <1      Vanadium  ppm  ASTM D5185m  >10  0      White Metal  scalar  *Visual  NONE  NONE
Nickel  ppm  ASTM D5185m  >10  <1
Titanium  ppm  ASTM D5185m  <1
Silver  ppm  ASTM D5185m  0      Aluminum  ppm  ASTM D5185m  >10  1      Lead  ppm  ASTM D5185m  >10  1      Copper  ppm  ASTM D5185m  >10  <1
Silver  ppm  ASTM D5185m  0      Aluminum  ppm  ASTM D5185m  >10  1      Lead  ppm  ASTM D5185m  >10       Copper  ppm  ASTM D5185m  >75  2      Tin  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      White Metal  scalar  *Visual  NONE  NONE
Aluminum  ppm  ASTM D5185m  >10  1      Lead  ppm  ASTM D5185m  >10  <1      Copper  ppm  ASTM D5185m  >75  2      Tin  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      White Metal  scalar  *Visual  NONE  NONE
Lead  ppm  ASTM D5185m  >10  <1
Copper  ppm  ASTM D5185m  >75  2      Tin  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      White Metal  scalar  *Visual  NONE  NONE
Tin  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  0  0      White Metal  scalar  *Visual  NONE  NONE
Vanadium  ppm  ASTM D5185m  0      White Metal  scalar  *Visual  NONE  NONE
White Metal scalar *Visual NONE NONE
Silicon ppm ASTM D5185m >20 2
Potassium ppm ASTM D5185m >20 1
Water WC Method >0.1 NEG
Particles >4µm ASTM D7647 >5000 🔺 80801
Particles >6µm ASTM D7647 >1300 🔺 7353
Particles >14µm ASTM D7647 >160 103
Particles >21µm ASTM D7647 >40 26
Particles >38µm ASTM D7647 >10 1
Particles >71µm ASTM D7647 >3 0
Oil Cleanliness ISO 4406 (c) >19/17/14 🔺 24/20/14
Silt scalar *Visual NONE NONE
Debris scalar *Visual NONE VLITE
Sand/Dirt scalar *Visual NONE NONE
Appearance scalar *Visual NORML NORML
Odor scalar *Visual NORML NORML
Emulsified Water scalar *Visual >0.1 NEG
Sodium ppm ASTM D5185m 0
Boron ppm ASTM D5185m 5 0
Barium ppm ASTM D5185m 5 0
Molybdenum ppm ASTM D5185m 5 <1
Manganese ppm ASTM D5185m <1
Magnesium ppm ASTM D5185m 25 1
Calcium ppm ASTM D5185m 200 40
Phosphorus ppm ASTM D5185m 300 258
Zinc ppm ASTM D5185m 370 332
Sulfur ppm ASTM D5185m 2500 3798
Acid Number (AN) mg KOH/g ASTM D8045 0.57 0.33
Visc @ 40°C cSt ASTM D445 68 🔺 36.9
Visc @ 100°C cSt ASTM D445 8.6 🔺 6.4
Viscosity Index (VI) Scale ASTM D2270 96 124





Contact/Location: BEN PROFFITT - CARHUR