

#### Machine Id CG8259 Component 1 Differential Fluid GEAR OIL SAE 75W90 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

### WEAR

All component wear rates are normal.

### CONTAMINATION

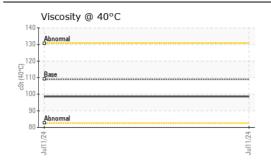
There is no indication of any contamination in the oil.

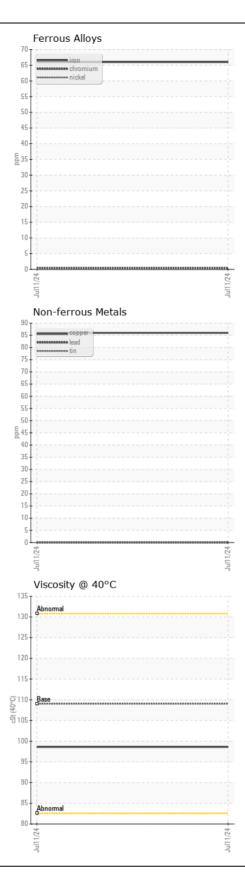
# FLUID CONDITION

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

TestUOMMethodLimit/AnCurrentHistory1History2Sample NumberClient InfoWC0873264Sample DateClient Info11 Jul 2024Machine AgehrsClient Info1854Oil AgehrsClient Info1366Filter AgehrsClient Info0Oil ChangedClient InfoChangedFilter ChangedIClient InfoChangedFilter ChangedClient InfoMORMALSample StatusKSTM D5185m>500666IronppmASTM D5185m>10NickelppmASTM D5185m>100SilverppmASTM D5185m>253AluminumppmASTM D5185m>250VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>100White Metalscalar*VisualNONEMODERSiliconppmASTM D5185m>7513SiliconppmASTM D5185m>201SiliconppmASTM D5185m>201
Sample DateClient InfoI1 Jul 2024Machine AgehrsClient InfoI854Oil AgehrsClient InfoI366Filter AgehrsClient InfoOOil ChangedClient InfoChangedFilter ChangedVClient InfoChangedFilter ChangedVClient InfoChangedSample StatusClient InfoMORMALIronppmASTM D5185m>50066NormalppmASTM D5185m>100NickelppmASTM D5185m>100SilverppmASTM D5185m>253AluminumppmASTM D5185m>250CopperppmASTM D5185m>100VanadiumppmASTM D5185m>100White Metalscalar*VisualNONEMODERSiliconppmASTM D5185m>7513SiliconppmASTM D5185m>7513SiliconppmASTM D5185m>201SiliconppmASTM D5185m>7513
Machine AgehrsClient Info1854Oil AgehrsClient Info0Filter AgehrsClient Info0Oil ChangedClient InfoChangedOil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoChangedIronppmASTM D5185m>50066NormalppmASTM D5185m>10NickelppmASTM D5185m>100SilverppmASTM D5185m>253AluminumppmASTM D5185m>250CopperppmASTM D5185m>10086TinppmASTM D5185m>100VanadiumppmASTM D5185m>100White Metalscalar*VisualNONEMODERSiliconppmASTM D5185m>7513SiliconppmASTM D5185m>7513SiliconppmASTM D5185m>201SiliconppmASTM D5185m>7513Silicon<
Oil AgehrsClient Info1366Filter AgehrsClient Info0Oil ChangedClient InfoChangedFilter ChangedLClient InfoChangedFilter ChangedLClient InfoChangedSample StatusVClient InfoNORMALIronppmASTM D5185m>500666ChromiumppmASTM D5185m>10<1NickelppmASTM D5185m>100NickelppmASTM D5185m>100SilverppmASTM D5185m>253AluminumppmASTM D5185m>250LeadppmASTM D5185m>100YanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>100White Metalscalar*VisualNONEMODERSiliconppmASTM D5185m>7513SiliconppmASTM D5185m>201SiliconppmASTM D5185m>2013SiliconppmASTM D5185m>2013Silicon </th
Filter AgehrsClient Info0Oil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoChangedIronppmASTM D5185m>50066ChromiumppmASTM D5185m>10<1NickelppmASTM D5185m>100NickelppmASTM D5185m>100SilverppmASTM D5185m>253AluminumppmASTM D5185m>250LeadppmASTM D5185m>1086TinppmASTM D5185m>100VanadiumppmASTM D5185m>100White Metalscalar*VisualNONE0SiliconppmASTM D5185m>7513SiliconppmASTM D5185m>7513SiliconppmASTM D5185m>201SiliconppmASTM D5185m>7513SiliconppmASTM D5185m>201SiliconppmASTM D5185m>7513Silicon <t< th=""></t<>
Oil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoMORMALIronppmASTM D5185m>500666ChromiumppmASTM D5185m>10<1NickelppmASTM D5185m>100NickelppmASTM D5185m>100SilverppmASTM D5185m>253AluminumppmASTM D5185m>250LeadppmASTM D5185m>100866TinppmASTM D5185m>100866VanadiumppmASTM D5185m>1000White Metalscalar*VisualNONEMODERSiliconppmASTM D5185m>7513SiliconppmASTM D5185m>201
Filter ChangedClient InfoChangedSample StatusClient InfoNORMALIronppmASTM D5185m>50066ChromiumppmASTM D5185m>10<1NickelppmASTM D5185m>100TitaniumppmASTM D5185m>100SilverppmASTM D5185m>253AluminumppmASTM D5185m>253LeadppmASTM D5185m>10086CopperppmASTM D5185m>100TinppmASTM D5185m>100White Metalscalar*VisualNONEMODERSiliconppmASTM D5185m>7513SiliconppmASTM D5185m>201SiliconppmASTM D5185m>201
Sample Status  NORMAL      Iron  ppm  ASTM D5185m  >500  66      Chromium  ppm  ASTM D5185m  >10  <1      Nickel  ppm  ASTM D5185m  >10  0      Titanium  ppm  ASTM D5185m  >10  0      Silver  ppm  ASTM D5185m  >10  0      Aluminum  ppm  ASTM D5185m  >25  3      Lead  ppm  ASTM D5185m  >25  0      Copper  ppm  ASTM D5185m  >100  866      Tin  ppm  ASTM D5185m  >100  0      Vanadium  ppm  ASTM D5185m  >10  0      White Metal  scalar  *Visual  NONE  MODER
Iron  ppm  ASTM D5185m  >500  66      Chromium  ppm  ASTM D5185m  >10  <1      Nickel  ppm  ASTM D5185m  >10  0      Nickel  ppm  ASTM D5185m  >10  0      Titanium  ppm  ASTM D5185m  >0       Silver  ppm  ASTM D5185m  >25  3      Aluminum  ppm  ASTM D5185m  >25  0      Lead  ppm  ASTM D5185m  >10  86      Tin  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      White Metal  scalar  *Visual  NONE  MODER      Silicon  ppm  ASTM D5185m
Chromium  ppm  ASTM D5185m  >10  <1
Chromium  ppm  ASTM D5185m  >10  <1
Nickel  ppm  ASTM D5185m  >10  0      Titanium  ppm  ASTM D5185m  <0
Titanium  ppm  ASTM D5185m  O      Silver  ppm  ASTM D5185m  O      Aluminum  ppm  ASTM D5185m  >25  3      Lead  ppm  ASTM D5185m  >25  O      Copper  ppm  ASTM D5185m  >25  O      Tin  ppm  ASTM D5185m  >100  866      Vanadium  ppm  ASTM D5185m  >100  0      White Metal  scalar  *Visual  NONE  MODER      Silicon  ppm  ASTM D5185m  >75  13      Potassium  ppm  ASTM D5185m  >20  1
Silver  ppm  ASTM D5185m  0     Aluminum  ppm  ASTM D5185m  >25  3     Lead  ppm  ASTM D5185m  >25  0      Copper  ppm  ASTM D5185m  >25  0      Tin  ppm  ASTM D5185m  >100  86      Vanadium  ppm  ASTM D5185m  >100  0      White Metal  scalar  *Visual  NONE  MODER      Silicon  ppm  ASTM D5185m  >75  13      Potassium  ppm  ASTM D5185m  >20  1
Aluminum  ppm  ASTM D5185m  >25  3      Lead  ppm  ASTM D5185m  >25  0      Copper  ppm  ASTM D5185m  >100  86      Tin  ppm  ASTM D5185m  >100  0      Vanadium  ppm  ASTM D5185m  >100  0      White Metal  scalar  *Visual  NONE  MODER      Yellow Metal  scalar  *Visual  NONE  13      Silicon  ppm  ASTM D5185m  >20  1
Lead  ppm  ASTM D5185m  >25  0     Copper  ppm  ASTM D5185m  >100  86      Tin  ppm  ASTM D5185m  >100  0      Vanadium  ppm  ASTM D5185m  >10  0      White Metal  scalar  *Visual  NONE  MODER      Yellow Metal  scalar  *Visual  NONE  I3      Silicon  ppm  ASTM D5185m  >75  13      Potassium  ppm  ASTM D5185m  >20  1
Copper  ppm  ASTM D5185m  >100  86      Tin  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      White Metal  scalar  *Visual  NONE  MODER      Yellow Metal  scalar  *Visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >75  13      Potassium  ppm  ASTM D5185m  >20  1
Tin  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  0  0      White Metal  scalar  *Visual  NONE  MODER      Yellow Metal  scalar  *Visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >75  13      Potassium  ppm  ASTM D5185m  >20  1
VanadiumppmASTM D5185m0White Metalscalar*VisualNONEMODERYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>7513PotassiumppmASTM D5185m>201
White Metalscalar*VisualNONEMODERYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>7513PotassiumppmASTM D5185m>201
Yellow Metal  scalar  *Visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >75  13      Potassium  ppm  ASTM D5185m  >20  1
Silicon  ppm  ASTM D5185m  >75  13     Potassium  ppm  ASTM D5185m  >20  1
Potassium  ppm  ASTM D5185m  >20  1
Water WC Method >.2 NEG
Silt scalar *Visual NONE NONE
Debris scalar *Visual NONE NONE
Sand/Dirt scalar *Visual NONE NONE
Appearance scalar *Visual NORML NORML
Odor scalar *Visual NORML NORML
Emulsified Water scalar *Visual >.2 NEG
Sodium ppm ASTM D5185m <1
Boron  ppm  ASTM D5185m  400  608
Barium  ppm  ASTM D5185m  200  0
Molybdenum  ppm  ASTM D5185m  12  0
Manganese  ppm  ASTM D5185m  2
Magnesium  ppm  ASTM D5185m  12  937
Calcium ppm ASTM D5185m 150 13
Phosphorus  ppm  ASTM D5185m  1650  1546
Zinc ppm ASTM D5185m 125 43
Sulfur ppm ASTM D5185m 22500 21062
Visc @ 40°C cSt ASTM D445 109 98.6

Contact/Location: MICHAEL LAWSON - BUCGRA





**BUCKNER HEAVY LIFT** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0873264 Received 4732 NC 54 EAST : 15 Jul 2024 GRAHAM, NC Lab Number : 06237099 Tested : 17 Jul 2024 Unique Number : 11125933 Diagnosed : 17 Jul 2024 - Don Baldridge US 27253-9215 Test Package : CONST Contact: MICHAEL LAWSON Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. michaell@bucknercompanies.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)376-8888 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)376-4090

Contact/Location: MICHAEL LAWSON - BUCGRA Page 2 of 2