

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



NWW GREENWOOD

Rear Differential

SHELL SPIRAX S6 AXME 75W90 (3 GAL)

| RECOMMENDATION | |
|----------------|--|
|----------------|--|

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

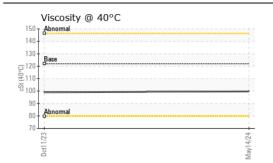
There is no indication of any contamination in the oil.

FLUID CONDITION

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

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|--|---------------------------------------|--|---|--------------|
| Sample Number | | Client Info | | PCA0127183 | PCA0102371 | |
| Sample Date | | Client Info | | 14 May 2024 | 11 Oct 2023 | |
| Machine Age | mls | Client Info | | 82513 | 50000 | |
| Oil Age | mls | Client Info | | 0 | 0 | |
| Filter Age | mls | Client Info | | 0 | 0 | |
| Oil Changed | | Client Info | | Changed | Changed | |
| Filter Changed | | Client Info | | Not Changd | Changed | |
| Sample Status | | | | NORMAL | NORMAL | |
| | | | | | | |
| Iron | ppm | ASTM D5185m | >1200 | 196 | 139 | |
| Chromium | ppm | ASTM D5185m | >8 | 2 | <1 | |
| Nickel | ppm | ASTM D5185m | >20 | 9 | 6 | |
| Titanium | ppm | ASTM D5185m | >4 | <1 | <1 | |
| Silver | ppm | ASTM D5185m | | <1 | 0 | |
| Aluminum | ppm | ASTM D5185m | >30 | 2 | 2 | |
| Lead | ppm | ASTM D5185m | >25 | 0 | 0 | |
| Copper | ppm | ASTM D5185m | >50 | 2 | <1 | |
| Tin | ppm | ASTM D5185m | >5 | 0 | 0 | |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | |
| White Metal | scalar | *Visual | NONE | NONE | NONE | |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | |
| Silicon | ppm | ASTM D5185m | >230 | 168 | 144 | |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 0 | |
| | ppiii | ASTIVI DJIOJIII | ~20 | U U | 2 | |
| Water | ppiii | WC Method | >.2 | NEG | NEG | |
| Water Silt | scalar | | | - | | |
| | | WC Method | >.2 | NEG | NEG | |
| Silt | scalar | WC Method *Visual | >.2 NONE | NEG NONE | NEG NONE | |
| Silt Debris | scalar scalar | WC Method *Visual *Visual | >.2 NONE NONE | NEG NONE NONE | NEG NONE NONE | |
| Silt Debris Sand/Dirt | scalar scalar scalar | WC Method *Visual *Visual *Visual | >.2 NONE NONE NONE | NEG NONE NONE NONE | NEG NONE NONE NONE | |
| Silt Debris Sand/Dirt Appearance | scalar scalar scalar scalar | WC Method *Visual *Visual *Visual *Visual | >.2 NONE NONE NONE | NEG NONE NONE NONE NORML | NEG NONE NONE NORML | |
| Silt Debris Sand/Dirt Appearance Odor | scalar scalar scalar scalar scalar scalar | WC Method *Visual *Visual *Visual *Visual *Visual | >.2 NONE NONE NORML NORML | NEG NONE NONE NORML NORML | NEG NONE NONE NORML NORML | |
| Silt Debris Sand/Dirt Appearance Odor Emulsified Water | scalar scalar scalar scalar scalar | WC Method *Visual *Visual *Visual *Visual *Visual | >.2 NONE NONE NORML NORML | NEG NONE NONE NORML NORML NEG | NEG NONE NONE NORML NORML NEG | |
| Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium | scalar scalar scalar scalar scalar scalar scalar | WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m | >.2 NONE NONE NORML NORML | NEG NONE NONE NORML NORML NEG 3 | NEG NONE NONE NORML NORML NEG 2 | |
| Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron | scalar scalar scalar scalar scalar scalar ppm | WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m | >.2 NONE NONE NORML NORML | NEG NONE NONE NORML NORML NEG 3 171 | NEG NONE NONE NORML NORML NEG 2 157 | |
| Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium | scalar scalar scalar scalar scalar scalar ppm ppm | WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m | >.2 NONE NONE NORML NORML | NEG NONE NONE NORML NORML NEG 3 171 0 | NEG NONE NONE NORML NORML NEG 2 157 2 | |
| Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum | scalar scalar scalar scalar scalar scalar ppm ppm ppm | WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m | >.2 NONE NONE NORML NORML | NEG NONE NONE NORML NORML NEG 3 171 0 2 | NEG NONE NONE NORML NORML NEG 2 157 2 0 | |
| Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese | scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm | WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >.2 NONE NONE NORML NORML | NEG NONE NONE NORML NORML NEG 3 171 0 2 4 | NEG NONE NONE NORML NORML NEG 2 157 2 0 3 | |
| Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium | scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm | WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >.2 NONE NONE NORML NORML | NEG NONE NONE NORML NORML NEG 3 171 0 2 4 4 15 | NEG NONE NONE NORML NORML NEG 2 157 2 0 3 14 | |
| Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium | scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm | WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >.2 NONE NONE NORML NORML | NEG NONE NONE NORML NORML NEG 3 171 0 2 4 15 141 | NEG NONE NONE NORML NORML NEG 2 157 2 0 3 3 14 64 | |
| Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus | scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm | WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >.2 NONE NONE NORML NORML | NEG NONE NONE NORML NORML NEG 3 171 0 2 4 15 141 1054 | NEG NONE NONE NORML NORML NEG 2 157 2 0 3 14 64 1047 | |
| Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium | scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm | WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >.2 NONE NONE NORML NORML | NEG NONE NONE NORML NORML NEG 3 171 0 2 4 15 141 1054 67 | NEG NONE NONE NORML NORML 2 2 157 2 0 3 14 64 64 1047 34 | |

Submitted By: James Threatt



Ferrous Alloys 200 180 160 140 120 la 100 80 40 0 May14/24 0ct1 Non-ferrous Metals 10 lead ШQ 1av14/24 Viscosity @ 40°C 145 140 135 130 12 120 00 00 115 ಕ್ಷ ಸ್ವ 110 105 100 95 90 85 Ab 80 75 0ct11/23 May14/24

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 NW WHITE & CO - GREENWOOD DIVISION : 23 May 2024 411 QUARRY ROAD : 03 Jun 2024 GREENWOOD, SC : 03 Jun 2024 - Jonathan Hester US 29149 Contact: Mitchell Brown greenwoodshop@nwwhite.com T: (864)389-9553 F:



Unique Number : 11046612 Diagnosed Test Package : FLEET 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)

Received

Tested

Laboratory

Sample No.

Lab Number : 06189860

: PCA0127183