



| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |



Area
NWW GREENWOOD
Machine Id
DT822
Component
Rear Differential
Fluid
SHELL SPIRAX S6 AXME 75W90 (3 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| 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 Changed | Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are 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 | --- |

CONTAMINATION

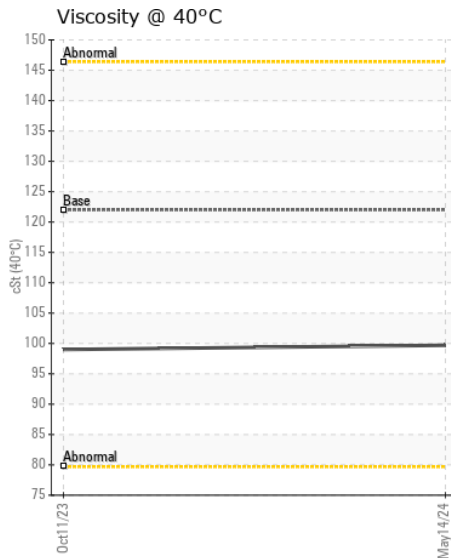
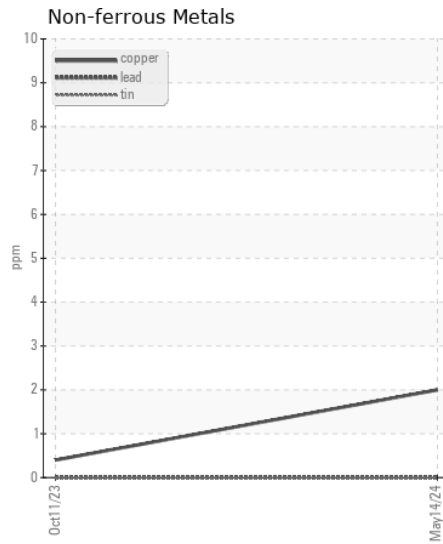
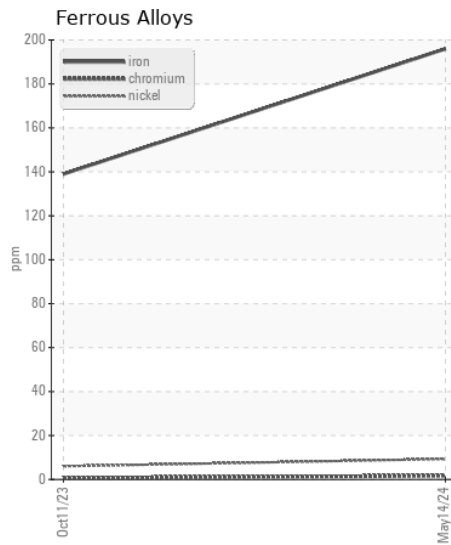
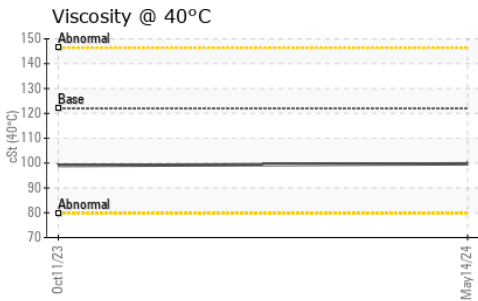
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >230 | 168 | 144 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 2 | --- |
| Water | | WC Method | >.2 | NEG | NEG | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >.2 | NEG | NEG | --- |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|-----|--------------|-------|-----|
| Sodium | ppm | ASTM D5185m | | 3 | 2 | --- |
| Boron | ppm | ASTM D5185m | | 171 | 157 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 2 | --- |
| Molybdenum | ppm | ASTM D5185m | | 2 | 0 | --- |
| Manganese | ppm | ASTM D5185m | | 4 | 3 | --- |
| Magnesium | ppm | ASTM D5185m | | 15 | 14 | --- |
| Calcium | ppm | ASTM D5185m | | 141 | 64 | --- |
| Phosphorus | ppm | ASTM D5185m | | 1054 | 1047 | --- |
| Zinc | ppm | ASTM D5185m | | 67 | 34 | --- |
| Sulfur | ppm | ASTM D5185m | | 25555 | 22490 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 122 | 99.7 | 99.0 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0127183
Lab Number : 06189860
Unique Number : 11046612
Test Package : FLEET

Received : 23 May 2024
Tested : 03 Jun 2024
Diagnosed : 03 Jun 2024 - Jonathan Hester

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 GREENWOOD, SC
 US 29149
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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)