



**PERFORMANCE
UNDER
PRESSURE**

OIL ANALYSIS REPORT

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

Machine Id
SL 3A
Component
Hydraulic System
Fluid
SHELL TELLUS S2 MX 46 (100 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | RP0037243 | RP0028396 | RP0018159 |
| Sample Date | | Client Info | | 03 Jul 2024 | 21 Mar 2024 | 05 Jan 2024 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | <1 | 0 | 3 |
| Lead | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >20 | 6 | 0 | 0 |
| Tin | ppm | ASTM D5185m | >20 | 0 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

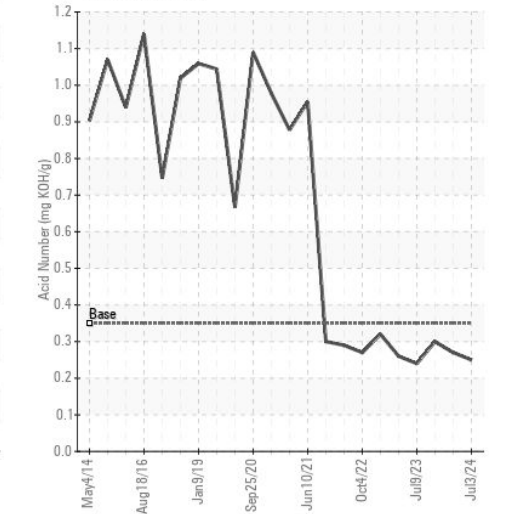
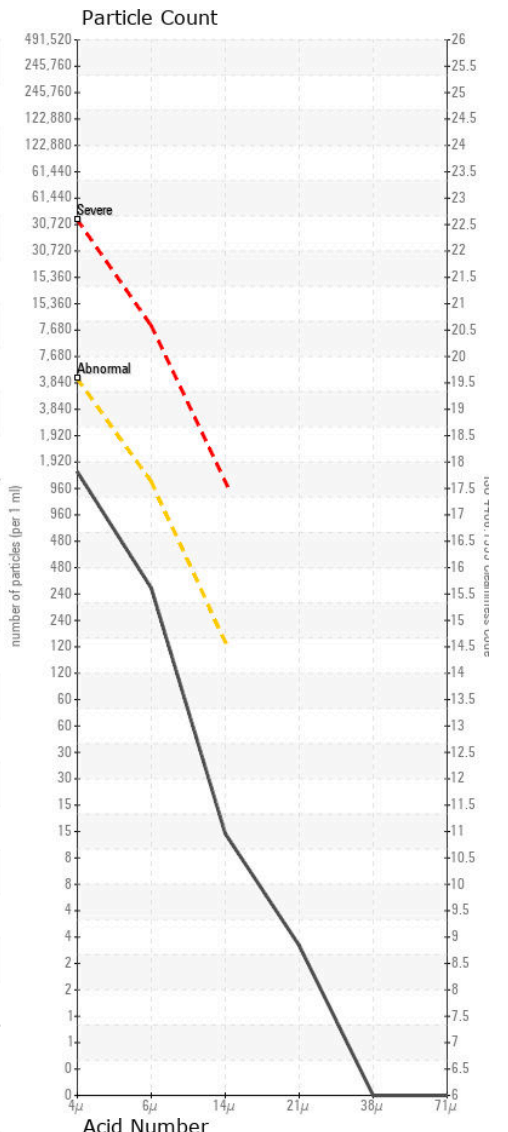
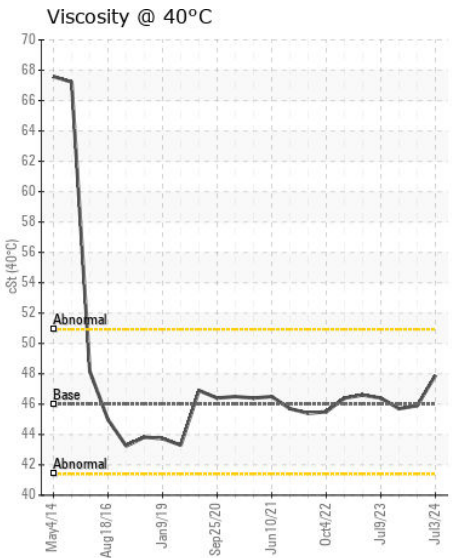
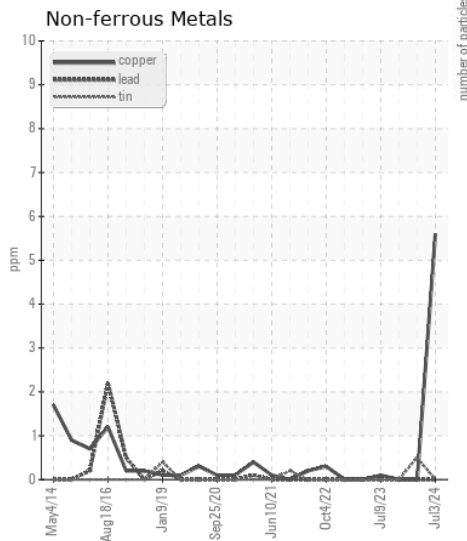
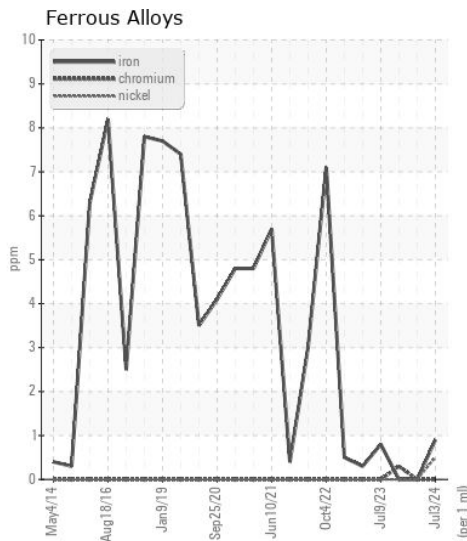
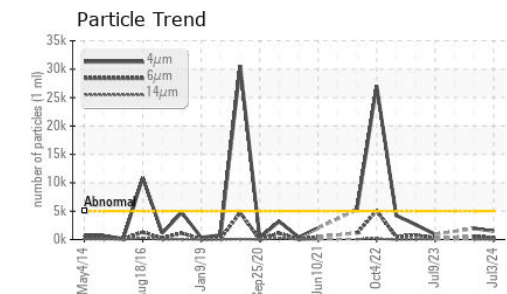
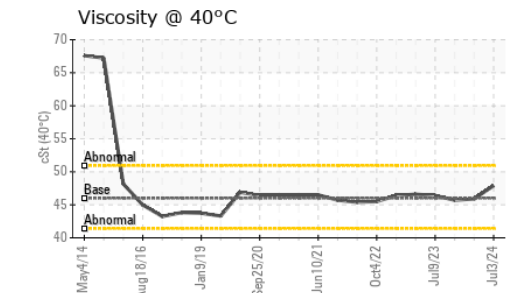
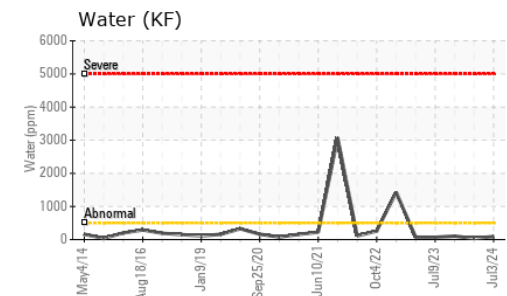
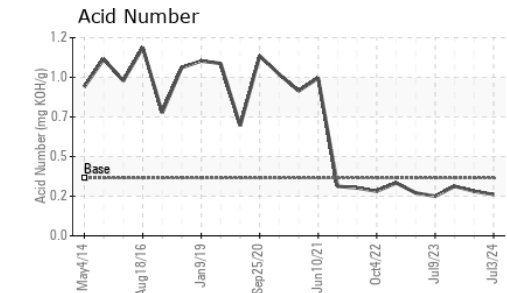
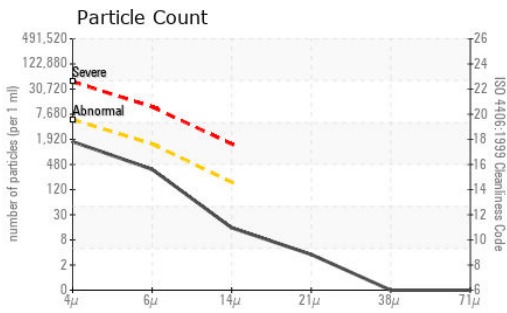
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|----------|---------|
| Silicon | ppm | ASTM D5185m | >15 | <1 | <1 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 0 | <1 |
| Water | % | ASTM D6304 | >0.05 | 0.009 | 0.003 | 0.010 |
| ppm Water | ppm | ASTM D6304 | >500 | 93 | 36 | 104 |
| Particles >4µm | | ASTM D7647 | >5000 | 1479 | 1962 | --- |
| Particles >6µm | | ASTM D7647 | >1300 | 323 | 546 | --- |
| Particles >14µm | | ASTM D7647 | >160 | 13 | 47 | --- |
| Particles >21µm | | ASTM D7647 | >40 | 3 | 14 | --- |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 1 | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 18/16/11 | 18/16/13 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | LIGHT | ▲ MODER |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.05 | NEG | NEG | NEG |

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|------|-------------|------|------|
| Sodium | ppm | ASTM D5185m | | 4 | 2 | 0 |
| Boron | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | 0 | 1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 70 | 60 | 50 | 65 |
| Calcium | ppm | ASTM D5185m | 10 | 8 | 8 | 10 |
| Phosphorus | ppm | ASTM D5185m | 300 | 275 | 251 | 230 |
| Zinc | ppm | ASTM D5185m | 325 | 322 | 270 | 359 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.35 | 0.25 | 0.27 | 0.30 |
| Visc @ 40°C | cSt | ASTM D445 | 46.0 | 47.9 | 45.9 | 45.7 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0037243
Lab Number : 06238493
Unique Number : 11127327
Test Package : IND 2

Received : 16 Jul 2024
Tested : 18 Jul 2024
Diagnosed : 18 Jul 2024 - Wes Davis

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)

JOHNSON CONTROLS
 1890 MINES RD
 PULASKI, TN
 US 38478
 Contact: JEREMY ROSE
 jeremy.b.rose@adient.com
 T:
 F: