



OIL ANALYSIS REPORT

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

Machine Id **BT-F01-B1 (S/N B1 RECYCLE BLOWER)**

Component **Outboard Blower**

Fluid **SHELL TELLUS S2 MX 100 (--- GAL)**

RECOMMENDATION

Current oil contamination levels are on par with new unfiltered oil. Filter oil if possible using B6=75 filter media or better. No other action recommended at this time. Resample at next normal interval.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|------|-------------|-----------|-------------|-------------|-------------|
| Sample Number | | Client Info | | PLS0000804 | PLS0000776 | PLS0000474 |
| Sample Date | | Client Info | | 31 Jan 2024 | 24 Oct 2023 | 15 Aug 2023 |
| Machine Age | mths | Client Info | | 3 | 0 | 0 |
| Oil Age | mths | Client Info | | 0 | 1 | 0 |
| Filter Age | mths | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | Changed | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | ABNORMAL | SEVERE | SEVERE |

WEAR

Wear particles are low and acceptable.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|---------|----------|----------|
| Iron | ppm | ASTM D5185m | >20 | 0 | 0 | 2 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >20 | 0 | 0 | 1 |
| Copper | ppm | ASTM D5185m | >20 | 0 | <1 | 2 |
| Tin | ppm | ASTM D5185m | >20 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | ▲ LIGHT |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

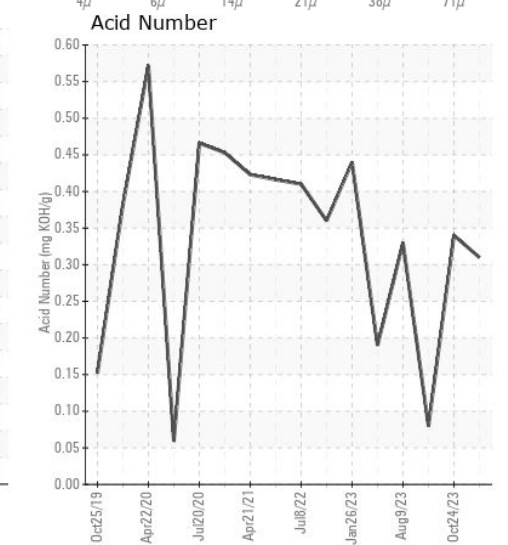
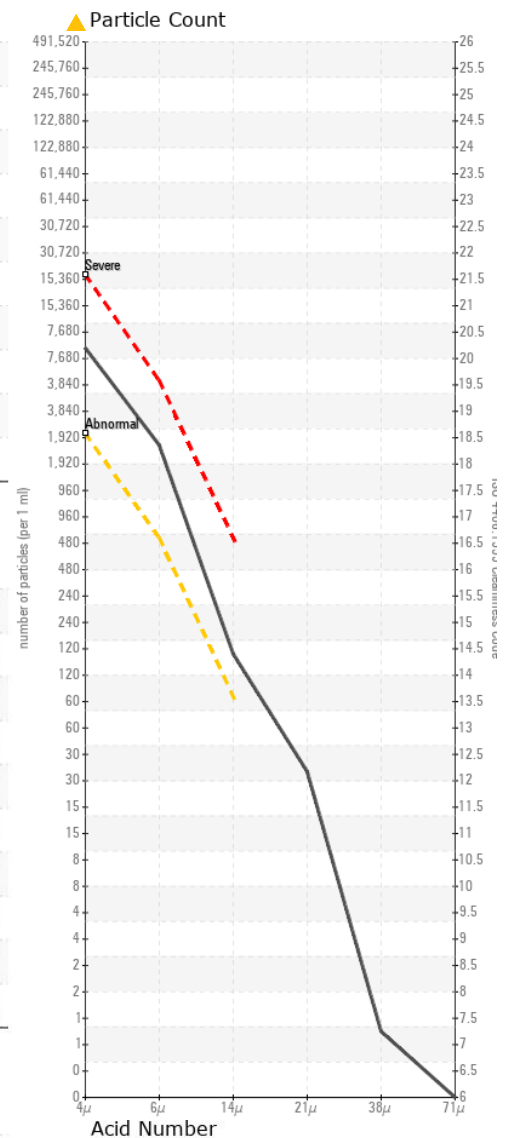
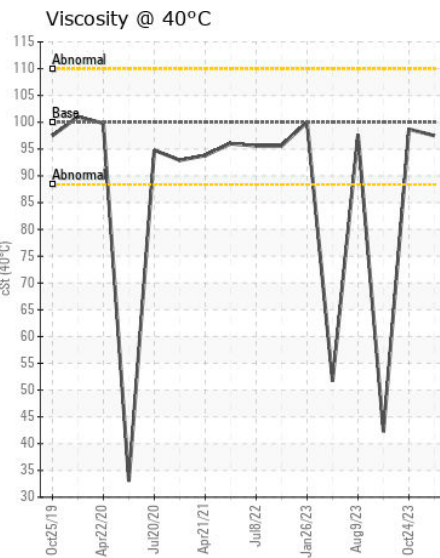
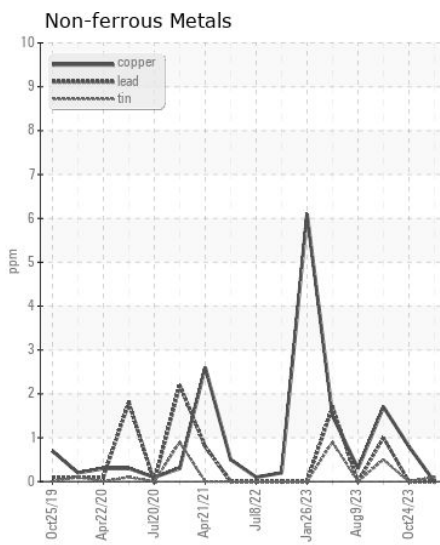
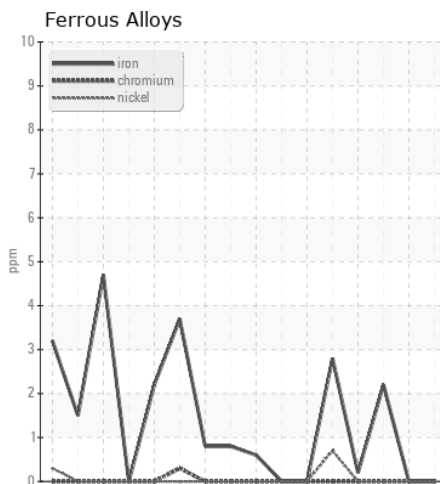
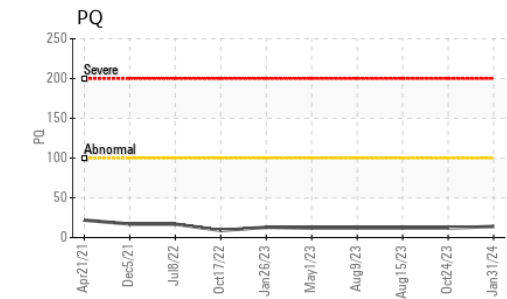
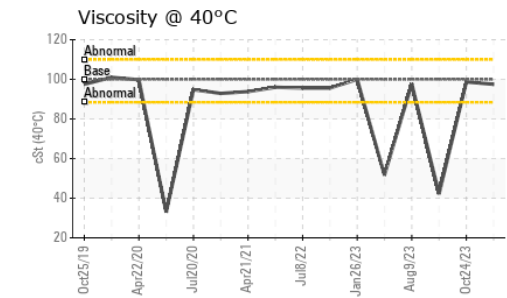
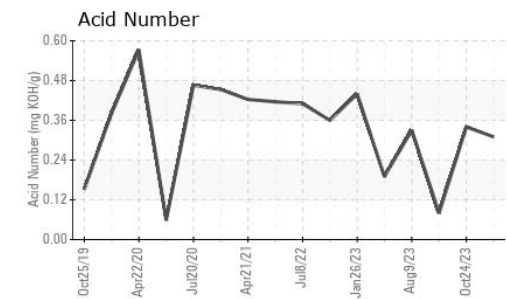
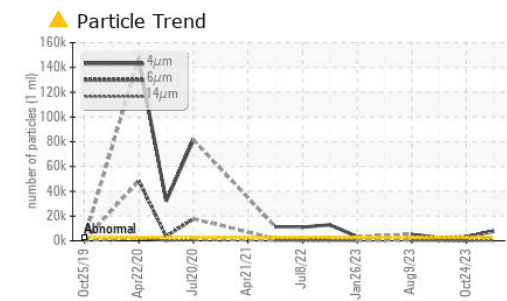
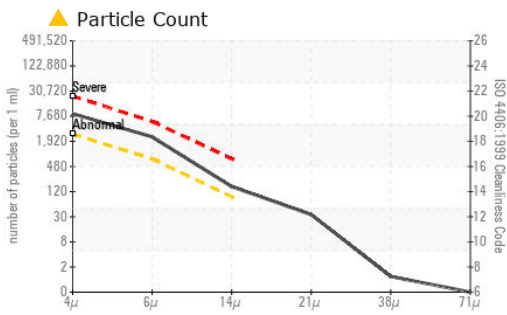
Particle contamination is elevated. Filtration can help extend machine life.

| | | | | | | |
|------------------|----------|--------------|-----------|------------|----------|------------|
| Silicon | ppm | ASTM D5185m | >15 | <1 | <1 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Water | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | | 0 | 0 | 0 |
| Nitration | Abs/cm | *ASTM D7624 | | 1.8 | 1.8 | 1.7 |
| Sulfation | Abs/.1mm | *ASTM D7415 | | 10.6 | 10.6 | 10.5 |
| Particles >4µm | | ASTM D7647 | >2500 | ▲ 7671 | 3189 | ▲ 2581 |
| Particles >6µm | | ASTM D7647 | >640 | ▲ 2149 | 278 | ▲ 848 |
| Particles >14µm | | ASTM D7647 | >80 | ▲ 140 | 15 | ▲ 99 |
| Particles >21µm | | ASTM D7647 | >20 | ▲ 30 | 3 | 34 |
| Particles >38µm | | ASTM D7647 | >4 | 1 | 0 | 2 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >18/16/13 | ▲ 20/18/14 | 19/15/11 | ▲ 19/17/14 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| 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 | | NEG | NEG | NEG |

FLUID CONDITION

Fluid health is acceptable for continued use.

| | | | | | | |
|------------------|----------|-------------|-----|------|------|--------|
| Sodium | ppm | ASTM D5185m | | 0 | 1 | 0 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | 65 | 30 | 1 |
| Calcium | ppm | ASTM D5185m | | 2 | 0 | 9 |
| Phosphorus | ppm | ASTM D5185m | | 290 | 215 | 47 |
| Zinc | ppm | ASTM D5185m | | 349 | 298 | 18 |
| Sulfur | ppm | ASTM D5185m | | 771 | 467 | ▲ 1556 |
| Oxidation | Abs/.1mm | *ASTM D7414 | | 2.0 | 2.1 | 2.3 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.31 | 0.34 | 0.08 |
| Visc @ 40°C | cSt | ASTM D445 | 100 | 97.5 | 98.7 | 42.24 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PLS0000804 **Received** : 01 Feb 2024
Lab Number : 06077607 **Tested** : 02 Feb 2024
Unique Number : 10859698 **Diagnosed** : 09 Feb 2024 - Mike Johnson
Test Package : IND 2 (Additional Tests: FT-IR, PQ, PrtCount)

HEXION - BAYTOWN PLANT
 8450 WEST BAY RD
 BAYTOWN, TX
 US 77520
 Contact: PAT BELL
 pat.bell@momentive.com

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)

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