



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL
SEVERE
ATTENTION

Machine Id
Allison Transmission Tk-94
Component
Transmission (Auto)
Fluid
CASTROL TRANSYND 668 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend that you drain the fluid from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with fluid. We recommend an early resample to monitor this condition.

WEAR

Iron and lead ppm levels are abnormal. Clutch disc wear indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

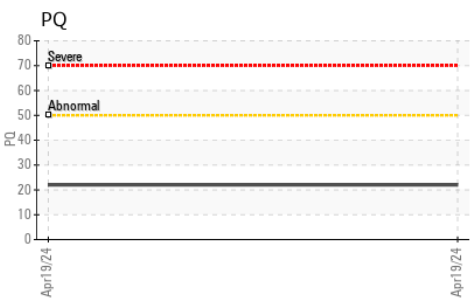
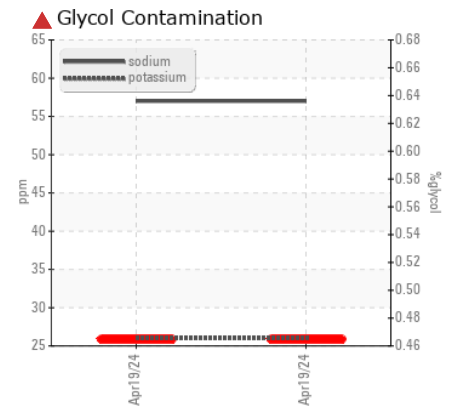
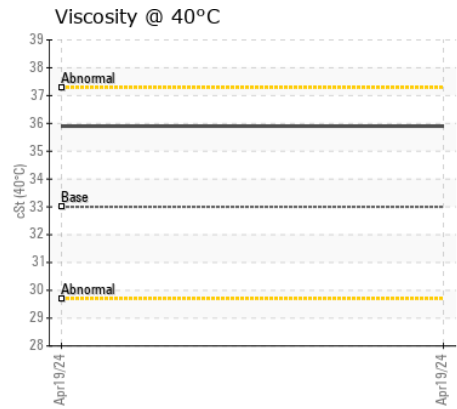
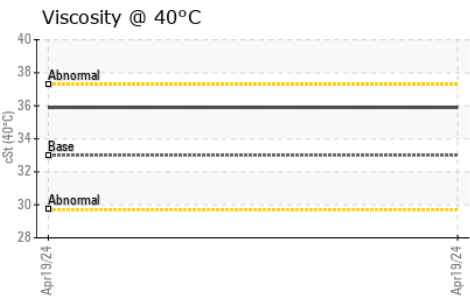
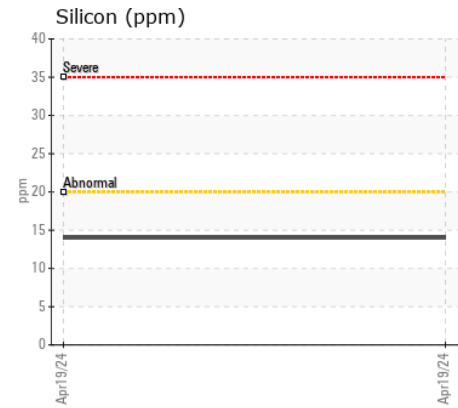
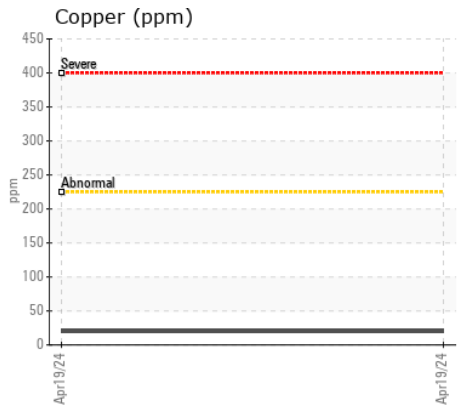
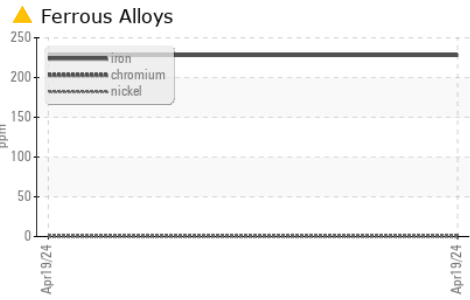
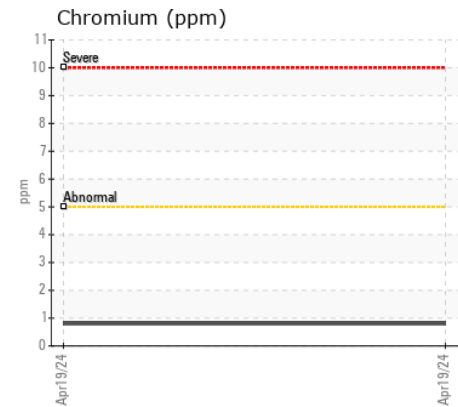
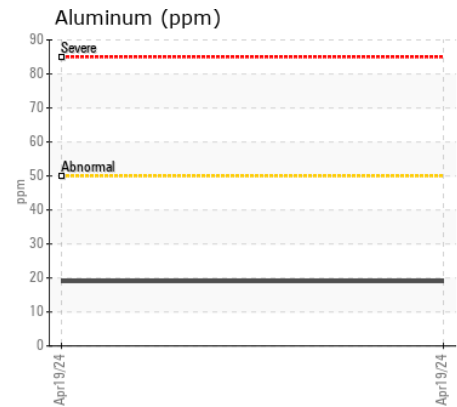
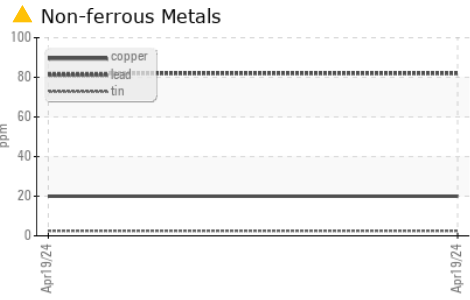
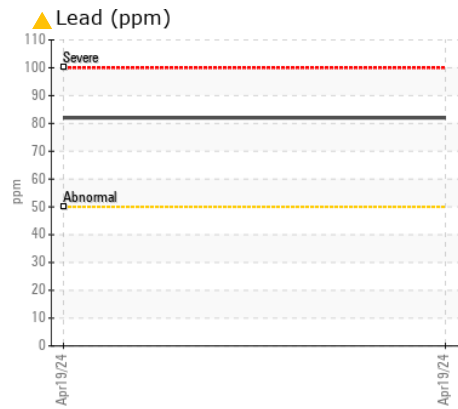
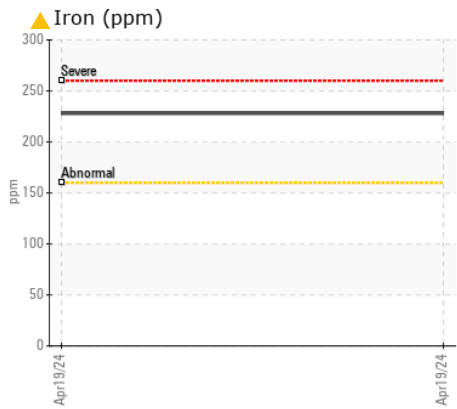
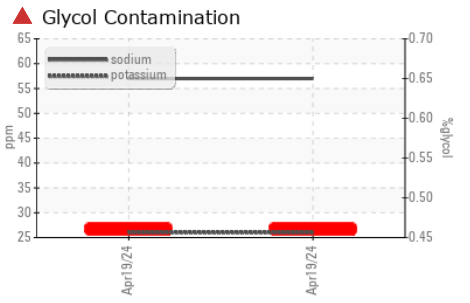
CONTAMINATION

Test for glycol is positive. There is a high concentration of glycol present in the fluid.

FLUID CONDITION

The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|--------|---------------|-----------|-------------|----------|----------|
| Sample Number | | Client Info | | WA0021550 | --- | --- |
| Sample Date | | Client Info | | 19 Apr 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 0 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Not Changd | --- | --- |
| Filter Changed | | Client Info | | Not Changd | --- | --- |
| Sample Status | | | | SEVERE | --- | --- |
| PQ | | ASTM D8184* | >50 | 22 | --- | --- |
| Iron | ppm | ASTM D5185(m) | >160 | ▲ 228 | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >5 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185(m) | >5 | 1 | --- | --- |
| Titanium | ppm | ASTM D5185(m) | | <1 | --- | --- |
| Silver | ppm | ASTM D5185(m) | >5 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >50 | 19 | --- | --- |
| Lead | ppm | ASTM D5185(m) | >50 | ▲ 82 | --- | --- |
| Copper | ppm | ASTM D5185(m) | >225 | 20 | --- | --- |
| Tin | ppm | ASTM D5185(m) | >10 | 2 | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | --- | --- |
| White Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185(m) | >20 | 14 | --- | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | ▲ 26 | --- | --- |
| Water | | WC Method | >0.1 | NEG | --- | --- |
| Glycol | % | ASTM D7922* | | ▲ 0.468 | --- | --- |
| 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* | >0.1 | NEG | --- | --- |
| Sodium | ppm | ASTM D5185(m) | | ● 57 | --- | --- |
| Boron | ppm | ASTM D5185(m) | | 28 | --- | --- |
| Barium | ppm | ASTM D5185(m) | | <1 | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | | 2 | --- | --- |
| Manganese | ppm | ASTM D5185(m) | | 3 | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | | 33 | --- | --- |
| Calcium | ppm | ASTM D5185(m) | | 63 | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | | 218 | --- | --- |
| Zinc | ppm | ASTM D5185(m) | | 102 | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | | 654 | --- | --- |
| Visc @ 40°C | cSt | ASTM D7279(m) | 33 | 35.9 | --- | --- |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021550 **Received** : 22 Apr 2024
Lab Number : 02630639 **Tested** : 23 Apr 2024
Unique Number : 5763771 **Diagnosed** : 23 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, PQ)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.