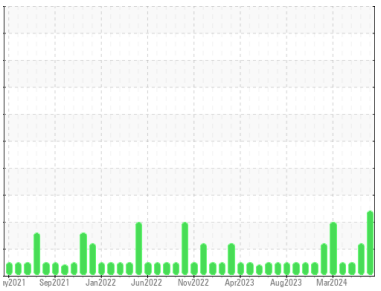
CCECO A Y2K Fluid Power Brand

# OIL ANALYSIS REPORT

Sample Rating Trend




ISO

Machine Id
## SSI PR6600
Component
**Hydraulic System**
Fluid
**VISH2-100-68 (--- GAL)**

## DIAGNOSIS

**Recommendation**
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

**Wear**
All component wear rates are normal.

**Contamination**
There is a high amount of particulates present in the oil.

**Fluid Condition**
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **Y2K0001641** | Y2K0001647 | Y2K0001486 |
| Sample Date | | Client Info | | **05 Jul 2024** | 08 Jun 2024 | 01 May 2024 |
| Machine Age | hrs | Client Info | | **28100** | 27820 | 0 |
| Oil Age | hrs | Client Info | | **2020** | 1740 | 1317 |
| Oil Changed | | Client Info | | **Changed** | Not Changd | Not Changd |
| Sample Status | | | | **ABNORMAL** | ATTENTION | NORMAL |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >20 | **6** | 6 | <1 |
| Chromium | ppm | ASTM D5185m | >10 | **0** | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | **0** | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | **0** | <1 | 0 |
| Silver | ppm | ASTM D5185m | | **0** | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | **0** | 2 | 0 |
| Lead | ppm | ASTM D5185m | >10 | **0** | <1 | <1 |
| Copper | ppm | ASTM D5185m | >75 | **0** | 2 | <1 |
| Tin | ppm | ASTM D5185m | >10 | **0** | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | **0** | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | **0** | <1 | 0 |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Barium | ppm | ASTM D5185m | | **0** | 1 | 6 |
| Molybdenum | ppm | ASTM D5185m | | **0** | 3 | 0 |
| Manganese | ppm | ASTM D5185m | | **0** | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | **7** | 7 | 7 |
| Calcium | ppm | ASTM D5185m | | **43** | 49 | 47 |
| Phosphorus | ppm | ASTM D5185m | | **911** | 718 | 849 |
| Zinc | ppm | ASTM D5185m | | **1152** | 1082 | 1111 |
| Sulfur | ppm | ASTM D5185m | | **3478** | 2741 | 3355 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >20 | **<1** | 2 | <1 |
| Sodium | ppm | ASTM D5185m | | **3** | 2 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | **0** | 1 | 2 |
| Water | % | ASTM D6304 | >0.1 | **0.003** | 0.003 | 0.002 |
| ppm Water | ppm | ASTM D6304 | >1000 | **39** | 29 | 18 |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Particles >4µm | | ASTM D7647 | >2500 | ▲ **3100** | 3518 | 554 |
| Particles >6µm | | ASTM D7647 | >640 | ▲ **872** | 677 | 97 |
| Particles >14µm | | ASTM D7647 | >80 | ▲ **167** | 70 | 2 |
| Particles >21µm | | ASTM D7647 | >20 | ▲ **64** | 20 | 0 |
| Particles >38µm | | ASTM D7647 | >4 | ▲ **6** | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | **0** | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >18/16/13 | ▲ **19/17/15** | 19/17/13 | 16/14/9 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | **0.75** | 0.88 | 0.78 |

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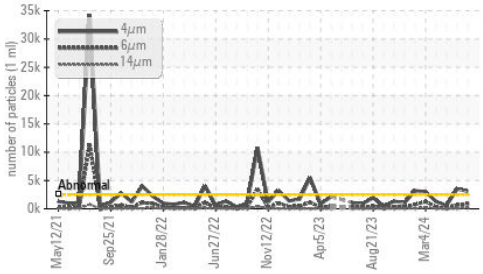
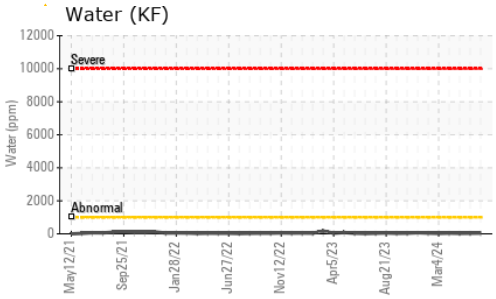
# OIL ANALYSIS REPORT

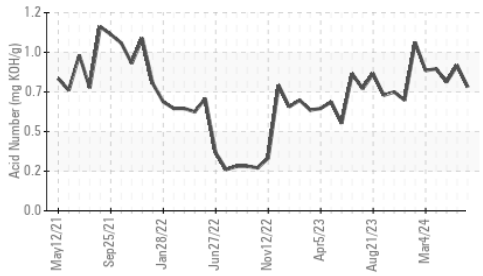
Particle Trend



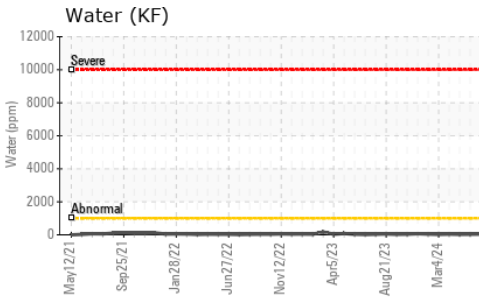

Water (KF)



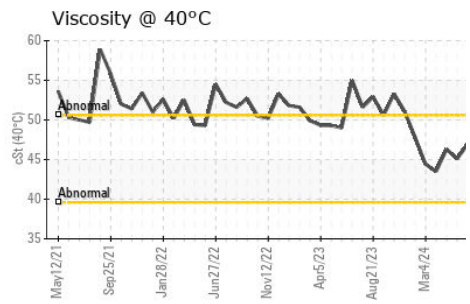

Acid Number




Water (KF)




Viscosity @ 40°C



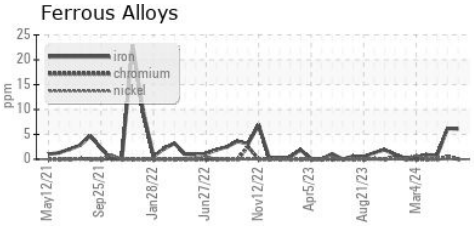

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **LIGHT** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| 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 | >0.1 | **NEG** | NEG | NEG |
| Free Water | scalar | *Visual | | **NEG** | NEG | NEG |

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | | **46.9** | 45.1 | 46.3 |

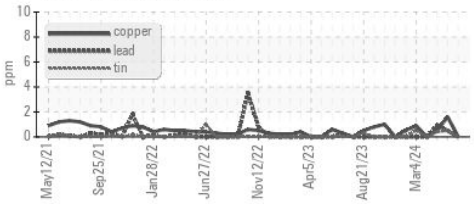
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  | | |
| Bottom | | |  | | |

## GRAPHS

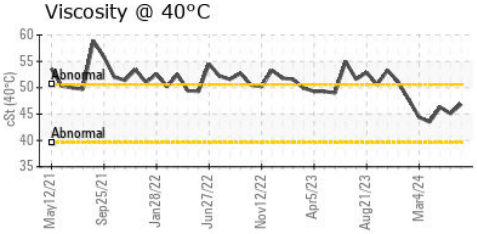
Ferrous Alloys



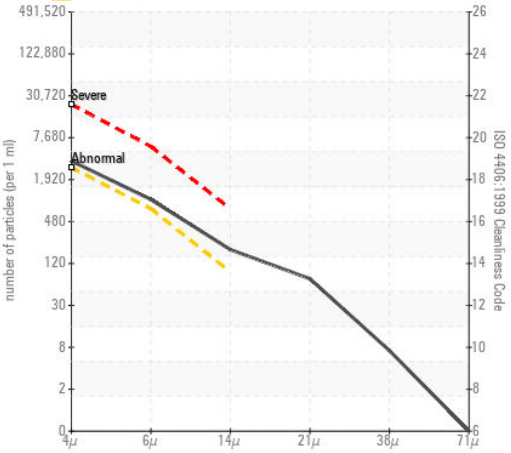

Non-ferrous Metals



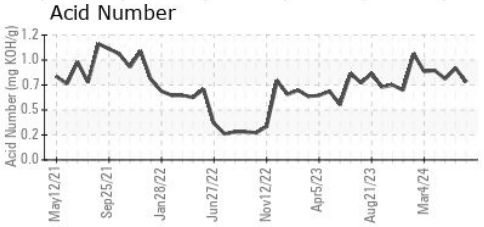

Viscosity @ 40°C




Particle Count




Acid Number




ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : Y2K0001641 **Received** : 11 Jul 2024
**Lab Number** : 06233837 **Tested** : 12 Jul 2024
**Unique Number** : 11122671 **Diagnosed** : 13 Jul 2024 - Don Baldridge
**Test Package** : MOB 2 ( Additional Tests: KF )

*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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