

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

NISSEI A-00 - S22222027K1

Component

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. 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.

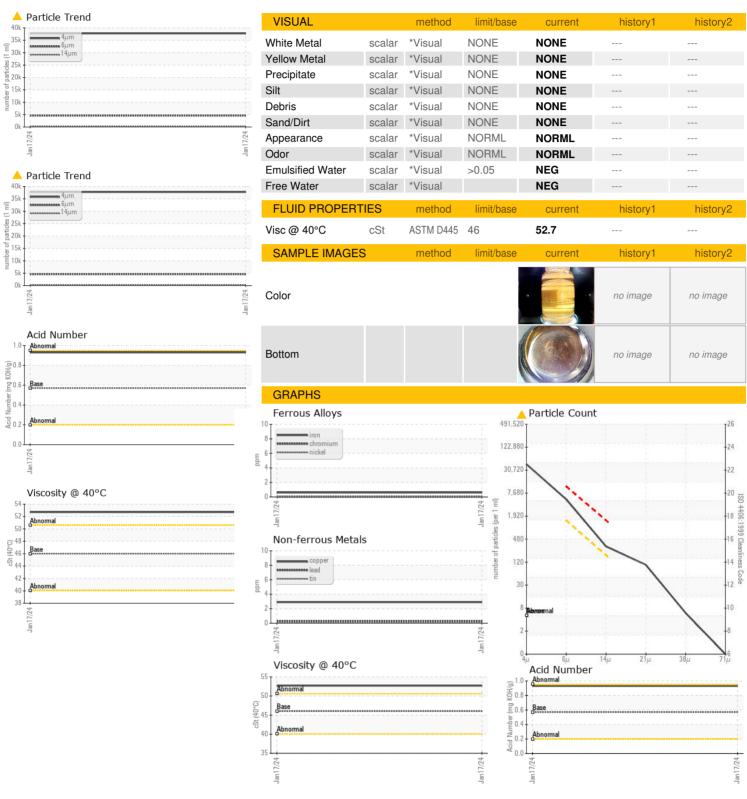
Fluid Condition

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

| | | | | Jan 2024 | | |
|---|--|--|--|---|--------------------------|--------------------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0883581 | | |
| Sample Date | | Client Info | | 17 Jan 2024 | | |
| Machine Age | yrs | Client Info | | 0 | | |
| Oil Age | yrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | ABNORMAL | | |
| CONTAMINATIO | N | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.05 | NEG | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | <1 | | |
| Chromium | ppm | ASTM D5185m | >20 | 0 | | |
| Nickel | ppm | ASTM D5185m | >20 | 0 | | |
| Titanium | ppm | ASTM D5185m | | 0 | | |
| Silver | ppm | ASTM D5185m | | 0 | | |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | | |
| Lead | ppm | ASTM D5185m | >20 | <1 | | |
| Copper | ppm | ASTM D5185m | >20 | 3 | | |
| Tin | ppm | ASTM D5185m | >20 | <1 | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Davis | ppm | ASTM D5185m | 5 | 0 | | |
| Boron | | | | _ | | |
| Barium | ppm | ASTM D5185m | 5 | 0 | | |
| | ppm | ASTM D5185m ASTM D5185m | 5 | 0 | | |
| Barium | | | | - | | |
| Barium Molybdenum | ppm | ASTM D5185m | | 0 | | |
| Barium Molybdenum Manganese | ppm | ASTM D5185m ASTM D5185m | 5 | 0 <1 | | |
| Barium Molybdenum Manganese Magnesium | ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | 5 25 | 0 <1 173 | | |
| Barium Molybdenum Manganese Magnesium Calcium | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 5 25 200 | 0 <1 173 140 | | |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 5 25 200 300 | 0 <1 173 140 678 | | |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 5 25 200 300 370 | 0 <1 173 140 678 810 | | |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 5 25 200 300 370 2500 | 0 <1 173 140 678 810 2334 | | |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method | 5 25 200 300 370 2500 limit/base | 0 <1 173 140 678 810 2334 current | history1 | history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m method ASTM D5185m | 5 25 200 300 370 2500 limit/base | 0 <1 173 140 678 810 2334 current | history1 | history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium | ppm | ASTM D5185m | 5 25 200 300 370 2500 limit/base >15 | 0 <1 173 140 678 810 2334 current 1 3 | history1 | history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium | ppm | ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 5 25 200 300 370 2500 limit/base >15 >20 | 0 <1 173 140 678 810 2334 current 1 3 0 | history1 | history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium FLUID CLEANLI | ppm | ASTM D5185m | 5 25 200 300 370 2500 limit/base >15 >20 limit/base | 0 <1 173 140 678 810 2334 current 1 3 0 current | history1 history1 | history2 history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium FLUID CLEANLII Particles >4µm | ppm | ASTM D5185m method ASTM D5185m | 5 25 200 300 370 2500 limit/base >15 >20 limit/base | 0 <1 173 140 678 810 2334 current 1 3 0 current 37760 | history1 history1 | history2 history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium FLUID CLEANLII Particles >4µm Particles >6µm | ppm | ASTM D5185m method ASTM D5185m | 5 25 200 300 370 2500 limit/base >15 >20 limit/base | 0 <1 173 140 678 810 2334 current 1 3 0 current 37760 4604 | history1 history1 | history2 history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium FLUID CLEANLI Particles >4µm Particles >14µm Particles >14µm | ppm | ASTM D5185m Method ASTM D5185m ASTM D5185m Method ASTM D5185m | 5 25 200 300 370 2500 limit/base >15 >20 limit/base >1300 >160 | 0 <1 173 140 678 810 2334 current 1 3 0 current 37760 ▲ 4604 ▲ 272 | history1 history1 | history2 history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium FLUID CLEANLI Particles >4µm Particles >14µm Particles >21µm | ppm | ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 | 5 25 200 300 370 2500 limit/base >15 >20 limit/base >140 >10 | 0 <1 173 140 678 810 2334 current 1 3 0 current 37760 △ 4604 △ 272 △ 90 | history1 history1 | history2 history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium FLUID CLEANLI Particles >4µm Particles >6µm Particles >21µm Particles >38µm | ppm | ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 | 5 25 200 300 370 2500 limit/base >15 >20 limit/base >140 >10 | 0 <1 173 140 678 810 2334 current 1 3 0 current 37760 4604 272 90 5 | history1 history1 | history2 history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium FLUID CLEANLI Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm | ppm | ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 | 5 25 200 300 370 2500 limit/base >15 >20 limit/base >1300 >160 >40 >10 >3 | 0 <1 173 140 678 810 2334 current 1 3 0 current 37760 4604 272 90 5 0 | history1 history1 | history2 history2 |



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Certificate L2367

Laboratory Sample No.

Lab Number Unique Number

: WC0883581 : 06064273 : 10835655 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 18 Jan 2024 Recieved Diagnosed : 21 Jan 2024

: Don Baldridge

Diagnostician

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)

NIAGARA PLASTICS - CAPLUGS

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