

OIL ANALYSIS REPORT

Machine Io STARLINE SL-5104-10B-SP 39 (S/N 14691) Component

Hydraulic System NOT GIVEN (--- GAL)

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

Particle Filter (Magn: 200 x)



Report Id: NORTULOK [WUSCAR] 06007968 (Generated: 01/04/2024 08:24:21) Rev: 1

NORMAL

Sample Rating Trend

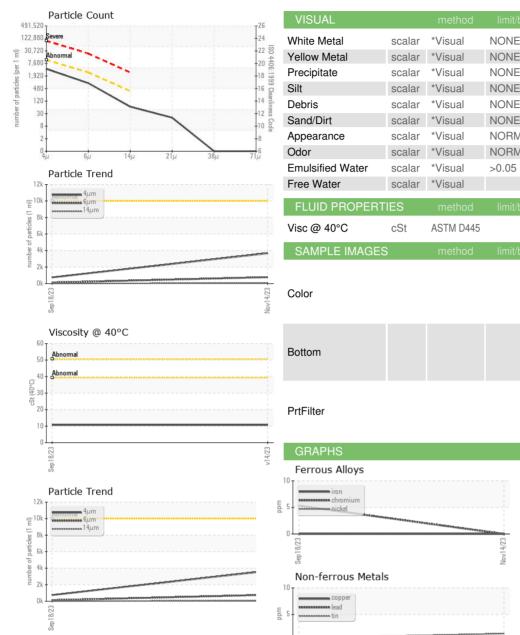


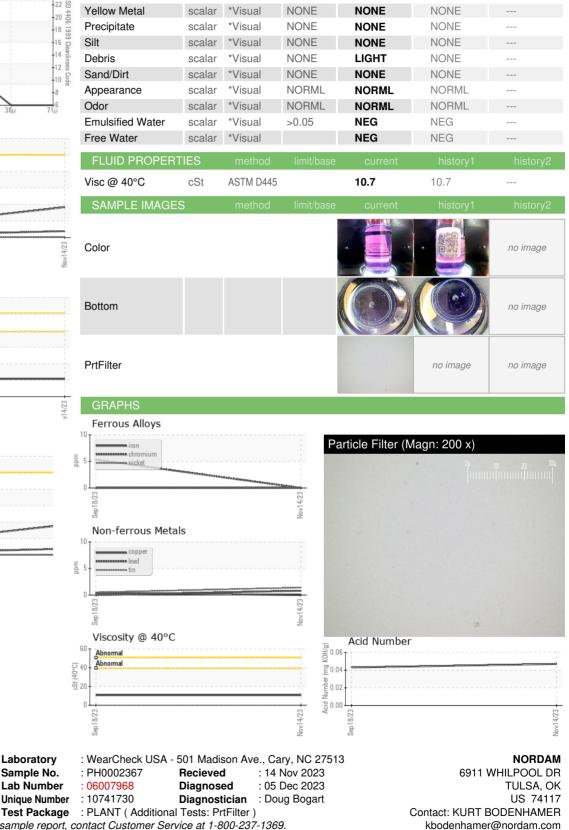
| SAMPLE INFORM | /IATION | method | limit/base | current | history1 | history2 |
|------------------|----------------|--------------|------------|-------------|-------------|----------|
| Sample Number | | Client Info | | PH0002367 | PH0001816 | |
| Sample Date | | Client Info | | 14 Nov 2023 | 18 Sep 2023 | |
| Machine Age | hrs | Client Info | | 0 | 0 | |
| Oil Age | hrs | Client Info | | 0 | 0 | |
| Oil Changed | | Client Info | | N/A | N/A | |
| Sample Status | | | | NORMAL | NORMAL | |
| CONTAMINATIO | N | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.05 | NEG | NEG | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | 0 | 0 | |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 5 | |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | |
| Silver | ppm | ASTM D5185m | | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | <1 | |
| Lead | ppm | ASTM D5185m | >20 | <1 | 0 | |
| Copper | ppm | ASTM D5185m | >20 | 0 | <1 | |
| Tin | ppm | ASTM D5185m | >20 | 1 | <1 | |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | |
| Barium | ppm | ASTM D5185m | | 0 | 0 | |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | |
| Magnesium | ppm | ASTM D5185m | | <1 | 0 | |
| Calcium | ppm | ASTM D5185m | | 0 | 2 | |
| Phosphorus | ppm | ASTM D5185m | | 33101 | 10000 | |
| Zinc | ppm | ASTM D5185m | | 0 | 0 | |
| Sulfur | ppm | ASTM D5185m | | 1735 | 2231 | |
| CONTAMINANTS | ; | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | <1 | <1 | |
| Sodium | ppm | ASTM D5185m | | 6 | 3 | |
| Potassium | ppm | ASTM D5185m | >20 | 11 | 13 | |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >10000 | 3673 | 748 | |
| Particles >6µm | | ASTM D7647 | >2500 | 771 | 124 | |
| Particles >14µm | | ASTM D7647 | >320 | 57 | 17 | |
| Particles >21µm | | ASTM D7647 | >80 | 17 | 5 | |
| Particles >38µm | | ASTM D7647 | >20 | 0 | 0 | |
| Particles >71µm | | ASTM D7647 | >4 | 0 | 0 | |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/15 | 19/17/13 | 17/14/11 | |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.047 | 0.043 | |

Contact/Location: KURT BODENHAMER - NORTULOK



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NONE

NONE

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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Laboratory

Sample No.

Lab Number

Unique Number

0 8/73

Sep 1

: PH0002367

:06007968

: 10741730

Viscosity @ 40°C

Certificate L2367

F:

T: (918)401-5219