

OIL ANALYSIS REPORT

JOHNSTOWN OH Machine Id MOWHAWK JOHNSTOWN GRANULATOR RAM

Component

Hydraulic System

AW HYDRAULIC OIL ISO 46 (75 GAL)

Sample Rating Trend



DIAGNOSIS

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

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

| | | | Feb 2021 | Jul2023 | | |
|------------------|----------|--------------|------------|-------------|-------------------|----------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0810264 | WC0526431 | |
| Sample Date | | Client Info | | 19 Jul 2023 | 02 Feb 2021 | |
| Machine Age | yrs | Client Info | | 22 | 0 | |
| Oil Age | yrs | Client Info | | 4 | 0 | |
| Oil Changed | , | Client Info | | N/A | N/A | |
| Sample Status | | | | NORMAL | ABNORMAL | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | <1 | 2 | |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | |
| Silver | ppm | ASTM D5185m | | <1 | 0 | |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | 4 | |
| Lead | ppm | ASTM D5185m | >20 | <1 | 0 | |
| Copper | ppm | ASTM D5185m | >20 | 1 | <1 | |
| Tin | ppm | ASTM D5185m | >20 | 0 | <1 | |
| Antimony | ppm | ASTM D5185m | | | 0 | |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 5 | 0 | 2 | |
| Barium | ppm | ASTM D5185m | 5 | <1 | 0 | |
| Molybdenum | ppm | ASTM D5185m | 5 | <1 | <1 | |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | |
| Magnesium | ppm | ASTM D5185m | 25 | 1 | 5 | |
| Calcium | ppm | ASTM D5185m | 200 | 36 | 64 | |
| Phosphorus | ppm | ASTM D5185m | 300 | 279 | 242 | |
| Zinc | ppm | ASTM D5185m | 370 | 363 | 303 | |
| Sulfur | ppm | ASTM D5185m | 2500 | 962 | 515 | |
| CONTAMINANTS | 3 | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | 2 | 0 | |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | |
| FLUID CLEANLIN | NESS _ | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >5000 | 2348 | <u> </u> | |
| Particles >6µm | | ASTM D7647 | >1300 | 459 | <u>▲</u> 1360 | |
| Particles >14µm | | ASTM D7647 | >160 | 28 | 37 | |
| Particles >21µm | | ASTM D7647 | >40 | 7 | 9 | |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 0 | |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 18/16/12 | <u>△</u> 21/18/12 | |
| FLUID DEGRADA | ATION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.57 | 0.32 | 0.502 | |



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Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: WC0810264 : 05905398 : 10566754 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 24 Jul 2023 Received Diagnosed : 25 Jul 2023 : Wes Davis

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) **ROBBINS & BOHR**

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