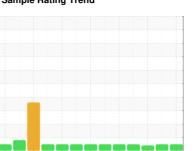


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



^{Machine Id} **16 BUSCH RP-1 (S/N 5547609)**

Component Pump Fluid

100 (--- GAL)

| i | ıs | ΡI | V | Δ | C | 1 |
|---|----|----|---|---|---|---|
| · | J | Г | v | n | J | |

Recommendation

Resample at the next service interval to monitor.

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.

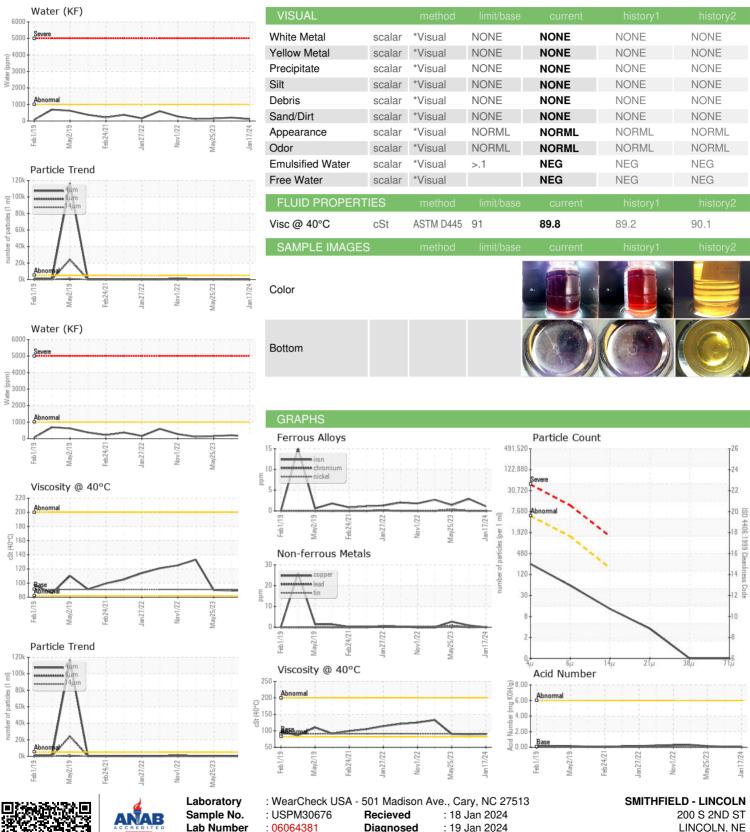
Fluid Condition

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

| | | Feb2019 0 | May2019 Feb2021 | Jan 2022 Nov 2022 May 2023 | Jan 2024 | |
|------------------|----------|--------------|-----------------|----------------------------|-------------|-------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | USPM30676 | USPM29834 | USPM28307 |
| Sample Date | | Client Info | | 17 Jan 2024 | 02 Oct 2023 | 25 May 2023 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | ATTENTION |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >90 | 1 | 3 | 1 |
| Chromium | ppm | ASTM D5185m | >5 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | >3 | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >7 | 0 | 0 | 2 |
| Lead | ppm | ASTM D5185m | >12 | <1 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >30 | 0 | <1 | 3 |
| Tin | ppm | ASTM D5185m | >9 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | <1 | 2 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | 0 | 3 | 0 |
| Calcium | ppm | ASTM D5185m | 0 | 5 | 8 | 8 |
| Phosphorus | ppm | ASTM D5185m | 1800 | 521 | 464 | ▲ 506 |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 1 | 0 |
| Sulfur | ppm | ASTM D5185m | 0 | 0 | 71 | 42 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >60 | 19 | 18 | 12 |
| Sodium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | <1 | <1 |
| Water | % | ASTM D6304 | >.1 | 0.011 | 0.020 | 0.014 |
| ppm Water | ppm | ASTM D6304 | >1000 | 119 | 208.3 | 149.6 |
| FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >5000 | 213 | 238 | 632 |
| Particles >6µm | | ASTM D7647 | >1300 | 51 | 52 | 102 |
| Particles >14µm | | ASTM D7647 | >160 | 11 | 7 | 6 |
| Particles >21µm | | ASTM D7647 | >40 | 3 | 3 | 2 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 1 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 15/13/11 | 15/13/10 | 16/14/10 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.05 | 0.078 | 0.084 | 0.175 |



OIL ANALYSIS REPORT





Certificate L2367

Lab Number **Unique Number**

Test Package

: 06064381

: 10835763 : IND 2

Diagnosed Diagnostician

: 19 Jan 2024 : Doug Bogart

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)

US 68508

T: F:

Contact: Service Manager