

OIL ANALYSIS REPORT

VAC 1178579-1 P1 E-BTTM (S/N 5588302) Component

Pump Fluid USPI VAC 100 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

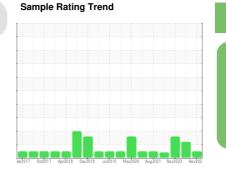
All component wear rates are normal.

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.





NORMAL

| SAMPLE INFORM | | method | limit/base | ourront | history | history |
|------------------|-------------|--------------|-----------------|---------------|-------------------------|-------------|
| | ATION | | - inni/base | current | history1 | history2 |
| Sample Number | | Client Info | | USPM31316 | USPM27372 | USPM23637 |
| Sample Date | | Client Info | | 18 Nov 2023 | 13 Jul 2023 | 17 Nov 2022 |
| 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 | ABNORMAL | ATTENTION |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >90 | 0 | 21 | 8 |
| Chromium | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >3 | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >7 | 0 | <1 | 2 |
| Lead | ppm | ASTM D5185m | >12 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >30 | 0 | <1 | 1 |
| Tin | ppm | ASTM D5185m | >9 | <1 | 0 | <1 |
| Antimony | ppm | ASTM D5185m | | | | |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| 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 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | <1 | 2 | 0 |
| Calcium | ppm | ASTM D5185m | 0 | <1 | 1 | <1 |
| Phosphorus | ppm | ASTM D5185m | 1800 | 1425 | 699 | 860 |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 7 | 15 |
| Sulfur | ppm | ASTM D5185m | 0 | 8 | 669 | 839 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >60 | 3 | 2 | 4 |
| Sodium | ppm | ASTM D5185m | 200 | 0 | 3 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 2 | 0 |
| Water | % | ASTM D510301 | | 0.041 | 0.028 | 0.031 |
| ppm Water | ppm | ASTM D6304 | >1000 | 410.3 | 287.8 | 311.4 |
| FLUID CLEANLIN | ES <u>S</u> | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >5000 | 3413 | | ▲ 5068 |
| Particles >6µm | | ASTM D7647 | >1300 | 975 | | ▲ 1325 |
| Particles >14µm | | ASTM D7647 | >160 | 61 | | 115 |
| Particles >21µm | | ASTM D7647 | | 12 | | 32 |
| Particles >38µm | | ASTM D7647 | >10 | 1 | | 2 |
| Particles >71µm | | | | 0 | | 1 |
| Oil Cleanliness | | ISO 4406 (c) | >3 >19/17/14 | 0 19/17/13 | | ▲ 20/18/14 |
| FLUID DEGRADA | | method | limit/base | current | history1 | history2 |
| | | | | | | 0.30 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.05 | 0.28 | 0.19 Contact/Leastia | |

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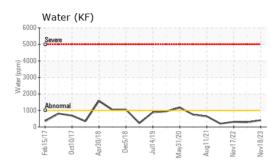
Contact/Location: ? ? - JBSBEA

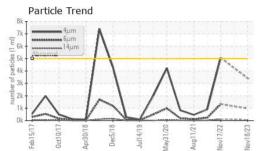


Water (KF)

6000

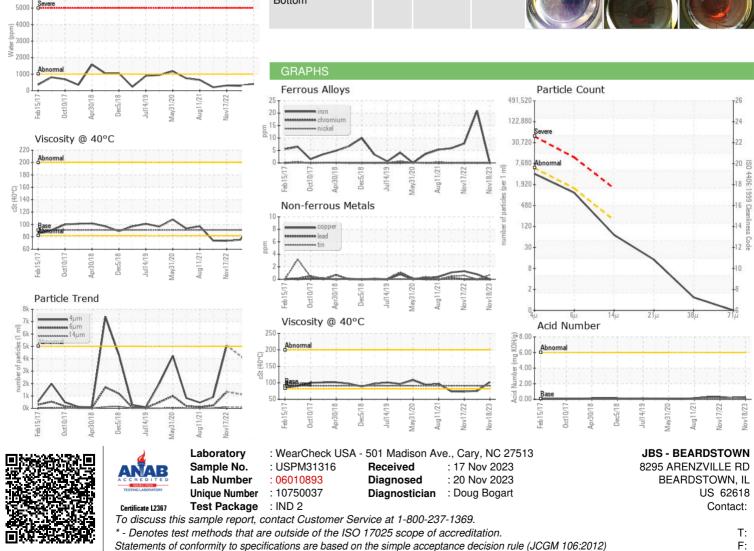
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