

OIL ANALYSIS REPORT

Sample Rating Trend

VIS DEBRIS

Machine Id

BUSCH PR5-507 P1 (S/N C4434)

Component Pump Fluid

USPI VAC 100 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

High concentration of visible dirt/debris present in the oil.

Fluid Condition

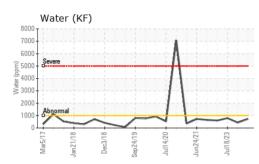
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

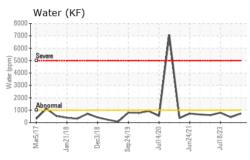
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|------------------|---------------|--------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | USPM37797 | USPM30847 | USPM27907 |
| Sample Date | | Client Info | | 01 Jun 2024 | 17 Nov 2023 | 18 Jul 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 | | | | ABNORMAL | NORMAL | NORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >90 | 6 | 0 | 1 |
| Chromium | ppm | ASTM D5185m | >5 | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | >3 | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >7 | 1 | 2 | 1 |
| Lead | ppm | ASTM D5185m | >12 | - <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | | 1 | <1 | <1 |
| Tin | | ASTM D5185m | >9 | ، <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | >9 | < 1 | 0 | 0 |
| | ppm | | | - | | |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | <1 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 0 | <1 | 0 | 6 |
| Calcium | ppm | ASTM D5185m | 0 | 0 | <1 | 9 |
| Phosphorus | ppm | ASTM D5185m | 1800 | 955 | 790 | 838 |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 0 | 8 |
| Sulfur | ppm | ASTM D5185m | 0 | 37 | 0 | 22 |
| CONTAMINANTS | 5 | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >60 | 3 | 2 | 2 |
| Sodium | ppm | ASTM D5185m | | 2 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 2 | <1 |
| Water | % | ASTM D6304 | >.1 | 0.073 | 0.043 | 0.079 |
| ppm Water | ppm | ASTM D6304 | >1000 | 734 | 433 | 795.7 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >5000 | | 149 | 466 |
| Particles >6µm | | ASTM D7647 | >1300 | | 46 | 136 |
| Particles >14µm | | ASTM D7647 | >160 | | 6 | 15 |
| Particles >21µm | | ASTM D7647 | >40 | | 1 | 4 |
| Particles >38μm | | ASTM D7647 | >10 | | 0 | 0 |
| Particles >71µm | | ASTM D7647 | | | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | | 14/13/10 | 16/14/11 |
| FLUID DEGRADA | | method | limit/base | current | history1 | history2 |
| | | | | current | | |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.05 | 0.08 | 0.083 | 0.05 |
| | | | | | | |

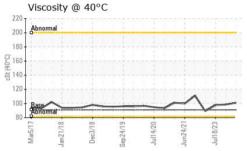
Contact/Location: SERVICE MANAGER - IBPEMP01



OIL ANALYSIS REPORT





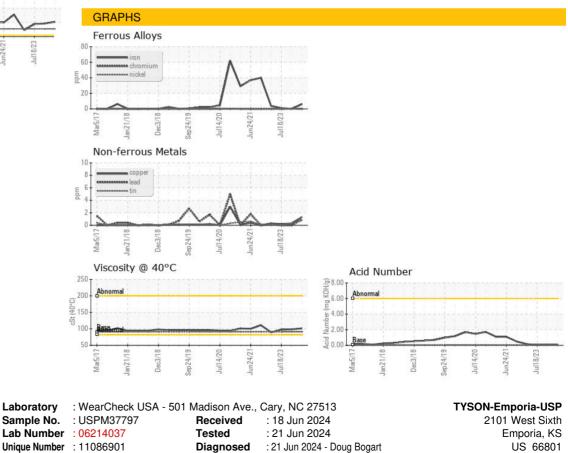


| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | 🔺 HEAVY | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >.1 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPER | TIES | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D445 | 91 | 101 | 98.5 | 97.6 |
| SAMPLE IMAGE | S | method | limit/base | current | history1 | history2 |
| Color | | | | | | |

Color



Bottom



Test Package : IND 2 Contact: SERVICE MANAGER Certificate 12367 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)

T: (620)343-3640 F: (620)340-1253

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Contact/Location: SERVICE MANAGER - IBPEMP01