

OIL ANALYSIS REPORT

Sample Rating Trend



KOBELCO 250HP (S/N 12H6114108)

Air Compressor Fluid USPI OFS AIR 68 (--- GAL)

DIAGNOSIS

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.

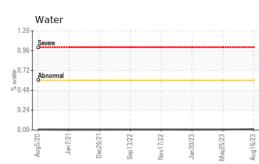
Fluid Condition

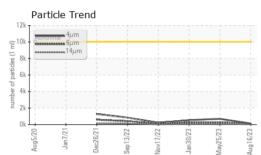
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

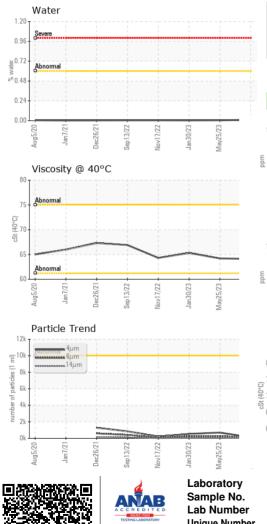
| | | Aug2020 | an2021 Dec2021 Sep20 | 22 Nov2022 Jan2023 May2023 | Aug2023 | |
|------------------|----------|--------------|----------------------|----------------------------|-------------|-------------|
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | USPM29224 | USPM28337 | USPM26429 |
| Sample Date | | Client Info | | 16 Aug 2023 | 25 May 2023 | 30 Jan 2023 |
| Machine Age | hrs | Client Info | | 0 | 0 | 29257 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | <1 | 1 | <1 |
| Chromium | ppm | ASTM D5185m | >4 | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | <1 | 2 | 0 |
| Lead | ppm | ASTM D5185m | >20 | <1 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >40 | 9 | 1 | <1 |
| Tin | ppm | ASTM D5185m | >5 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 2 |
| Molybdenum | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 2 | 5 | <1 |
| Calcium | ppm | ASTM D5185m | | <1 | 0 | 1 |
| Phosphorus | ppm | ASTM D5185m | | 579 | 581 | 602 |
| Zinc | ppm | ASTM D5185m | | 13 | 12 | 15 |
| Sulfur | ppm | ASTM D5185m | | 883 | 540 | 792 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 2 | 2 | 1 |
| Sodium | ppm | ASTM D5185m | | 1 | 1 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | <1 | 1 |
| Water | % | ASTM D6304 | >0.6 | 0.010 | 0.005 | 0.003 |
| ppm Water | ppm | ASTM D6304 | >6000 | 106.5 | 55.6 | 31.5 |
| FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >10000 | 129 | 693 | 537 |
| Particles >6µm | | ASTM D7647 | >2500 | 69 | 265 | 246 |
| Particles >14µm | | ASTM D7647 | >640 | 21 | 58 | 46 |
| Particles >21µm | | ASTM D7647 | >160 | 10 | 22 | 5 |
| Particles >38µm | | ASTM D7647 | >40 | 3 | 1 | 0 |
| Particles >71µm | | ASTM D7647 | >10 | 3 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/16 | 14/13/12 | 17/15/13 | 16/15/13 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.46 | 0.45 | 0.43 |
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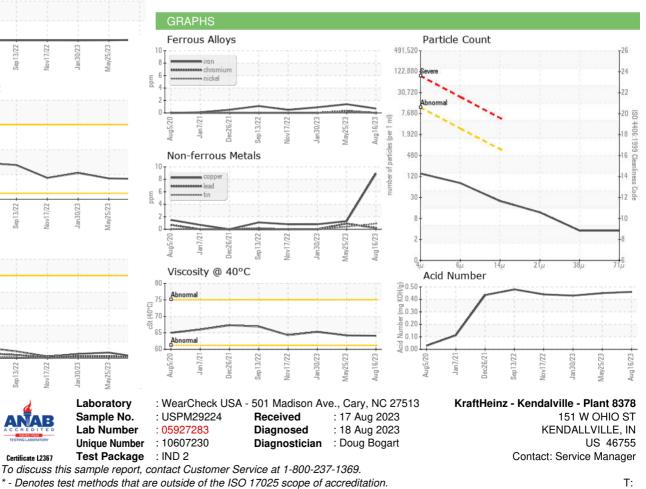






| | | | 11 11 11 | | | |
|------------------|--------|-----------|------------|---------|----------|--------------------------------|
| VISUAL | | method | limit/base | current | history1 | history2 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | 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 | >0.6 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D445 | | 64.1 | 64.2 | 65.3 |
| SAMPLE IMAGES | | method | limit/base | current | history1 | history2 |
| Color | | | | | | Ar M250HP M31037 MKEN |
| | | | | | | |

Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Service Manager - KRAKEN