

OIL ANALYSIS REPORT

Sample Rating Trend



TYSDAKPRO HYD 3 WELL SAW (S/N 1191)

Hydraulic System

USPI FG HYD 46 (--- GAL)

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

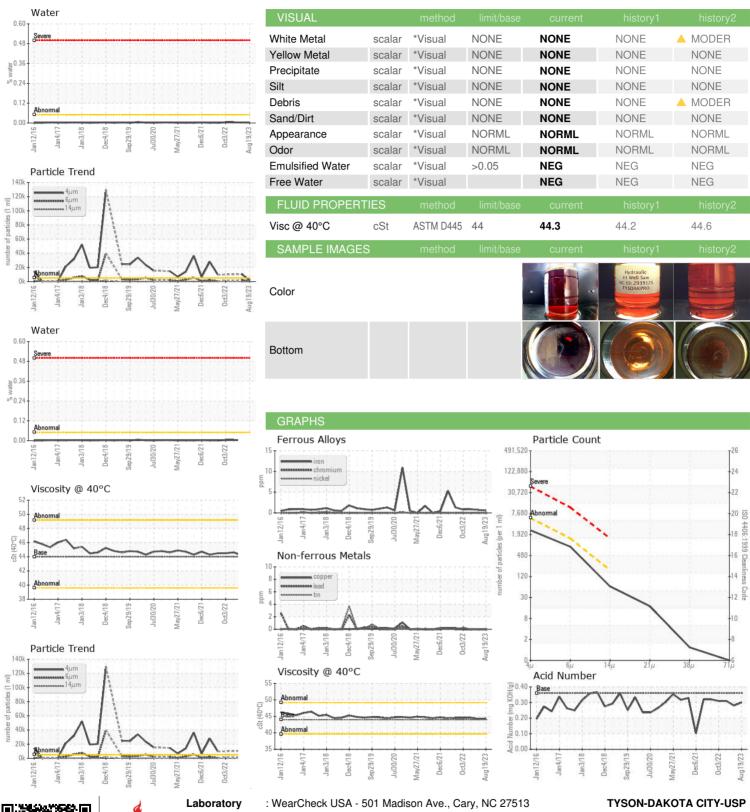
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



| Sample Number | | Client Info | | USPM29257 | USPM28885 | USPM26223 |
|------------------|----------|--------------|------------|-------------|-------------------------------|-------------|
| Sample Date | | Client Info | | 19 Aug 2023 | 11 May 2023 | 26 Jan 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 | ABNORMAL | ABNORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Tin | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 2 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Calcium | ppm | ASTM D5185m | | 1 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m | 725 | 501 | 474 | 500 |
| Zinc | ppm | ASTM D5185m | | 9 | 9 | 6 |
| Sulfur | ppm | ASTM D5185m | 625 | 654 | 557 | 640 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | <1 | 4 | 4 |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 1 | 0 |
| Water | % | ASTM D6304 | >0.05 | 0.002 | 0.003 | 0.004 |
| ppm Water | ppm | ASTM D6304 | >500 | 19.2 | 35.6 | 47.8 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >5000 | 2236 | ▲ 10396 | |
| Particles >6μm | | ASTM D7647 | >1300 | 757 | △ 1903 | |
| Particles >14μm | | ASTM D7647 | >160 | 55 | 95 | |
| Particles >21µm | | ASTM D7647 | >40 | 15 | 17 | |
| Particles >38μm | | ASTM D7647 | >10 | 1 | 2 | |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 18/17/13 | <u>\$\lambda\$\$ 21/18/14</u> | |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.36 | 0.30 | 0.28 | 0.31 |



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Sample No. Lab Number **Unique Number**

: USPM29257 : 05928331

: 10608278 : IND 2

Received : 18 Aug 2023 : 21 Aug 2023 Diagnosed

Diagnostician : Doug Bogart

Test Package Certificate L2367 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)

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