



| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Area

[16W15974]

Machine Id

JOHN DEERE 524P 1DW524PAVNLZ15874

Component

Transmission (Manual)

Fluid

JOHN DEERE HY-GARD HYD/TRANS (23 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 16W15974)

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0206898 | JR0196557 | JR0185480 |
| Sample Date | | Client Info | | 13 Apr 2024 | 27 Jan 2024 | 21 Oct 2023 |
| Machine Age | hrs | Client Info | | 2884 | 2490 | 2034 |
| Oil Age | hrs | Client Info | | 850 | 456 | 2034 |
| Filter Age | hrs | Client Info | | 850 | 456 | 2034 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Changed |
| Filter Changed | | Client Info | | Not Changd | Not Changd | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| PQ | | ASTM D8184 | >95 | 20 | 12 | 9 |
| Iron | ppm | ASTM D5185m | >200 | 13 | 12 | 16 |
| Chromium | ppm | ASTM D5185m | >5 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >7 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | 2 | <1 |
| Lead | ppm | ASTM D5185m | >45 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >225 | 5 | 4 | 6 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

There is no indication of any contamination in the fluid.

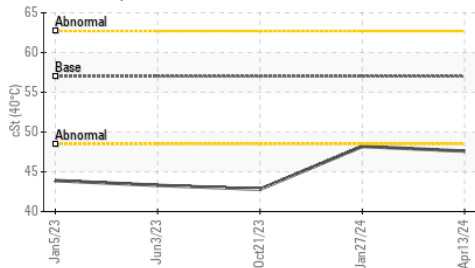
| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >125 | 13 | 12 | 23 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 2 | 0 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | 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 | >0.1 | NEG | NEG | NEG |

FLUID CONDITION

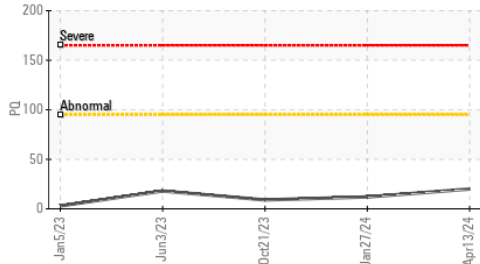
The condition of the fluid is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 8 | 2 | 19 |
| Boron | ppm | ASTM D5185m | 6 | 1 | 0 | 2 |
| Barium | ppm | ASTM D5185m | 0 | 1 | 1 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 1 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 145 | 93 | 91 | 86 |
| Calcium | ppm | ASTM D5185m | 3570 | 3435 | 3261 | 3105 |
| Phosphorus | ppm | ASTM D5185m | 1290 | 1147 | 1106 | 1006 |
| Zinc | ppm | ASTM D5185m | 1640 | 1296 | 1222 | 1254 |
| Sulfur | ppm | ASTM D5185m | | 4110 | 4072 | 3466 |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | 47.6 | 48.2 | 42.8 |

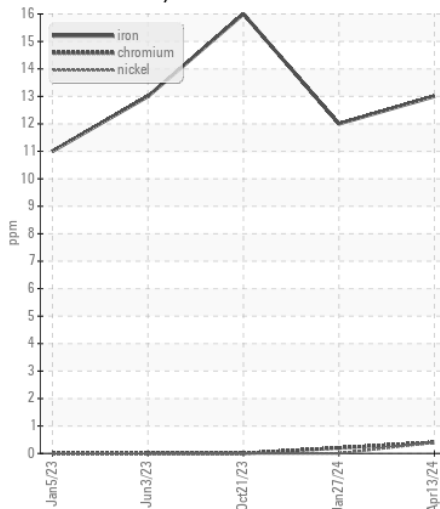
Viscosity @ 40°C



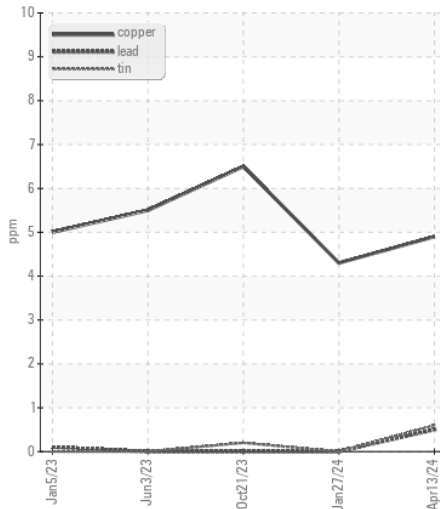
PQ



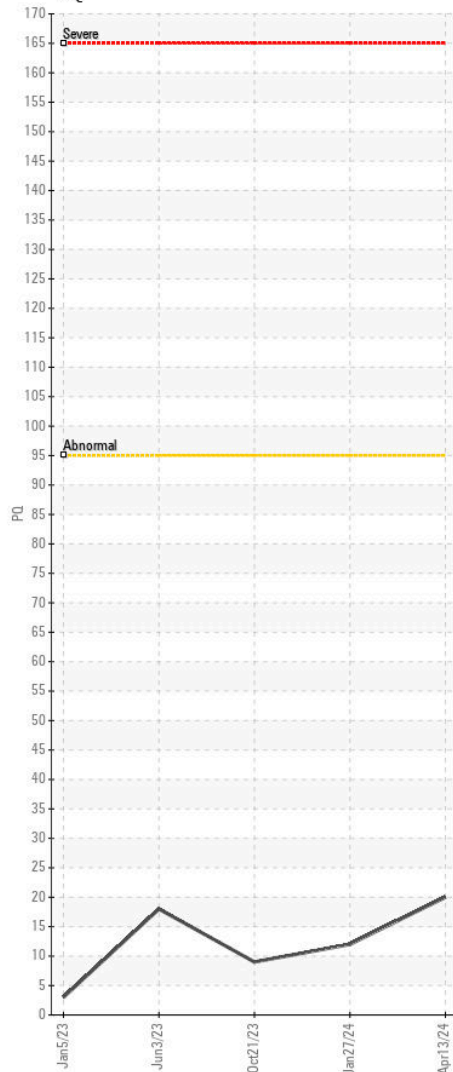
Ferrous Alloys



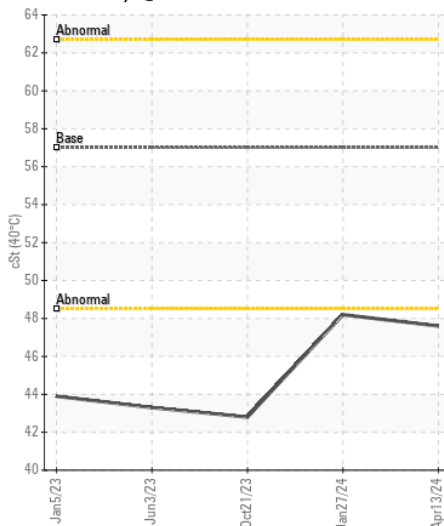
Non-ferrous Metals



PQ



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206898 **Received** : 16 Apr 2024
Lab Number : 06150628 **Tested** : 17 Apr 2024
Unique Number : 10980706 **Diagnosed** : 18 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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