



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

Machine Id
WIRTGEN W207FI 21200585
 Component
Hydraulic System
 Fluid
HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | JR0211855 | JR0200503 | --- |
| Sample Date | | Client Info | | 18 Jun 2024 | 23 Feb 2024 | --- |
| Machine Age | hrs | Client Info | | 1024 | 519 | --- |
| Oil Age | hrs | Client Info | | 0 | 519 | --- |
| Filter Age | hrs | Client Info | | 0 | 519 | --- |
| Oil Changed | | Client Info | | Not Changd | Not Changd | --- |
| Filter Changed | | Client Info | | Changed | Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ | | ASTM D8184 | | 15 | 16 | --- |
| Iron | ppm | ASTM D5185m | >20 | 3 | 0 | --- |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | --- |
| Silver | ppm | ASTM D5185m | | <1 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >10 | 3 | 0 | --- |
| Lead | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Copper | ppm | ASTM D5185m | >75 | 3 | 1 | --- |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

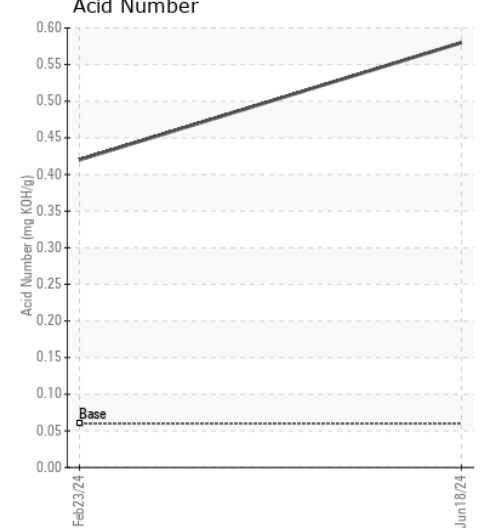
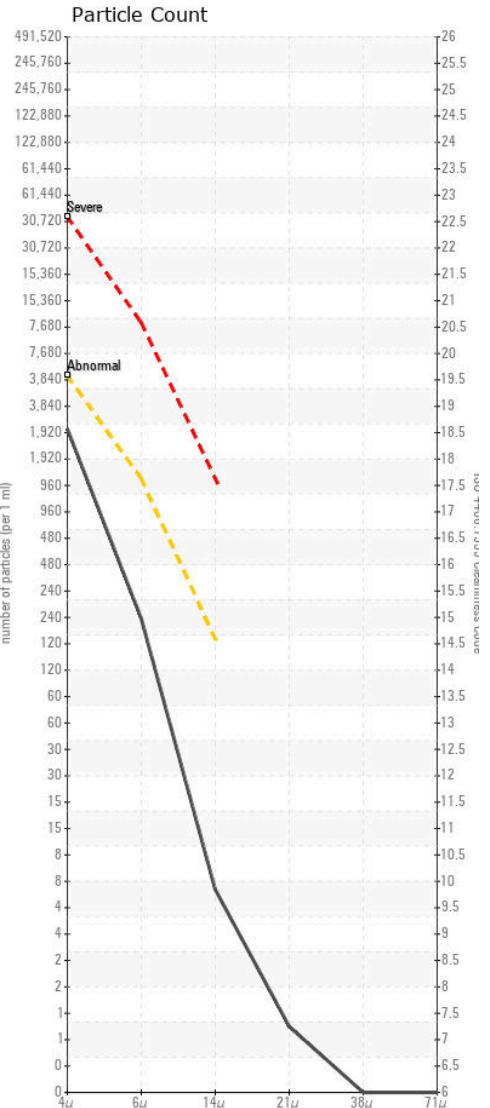
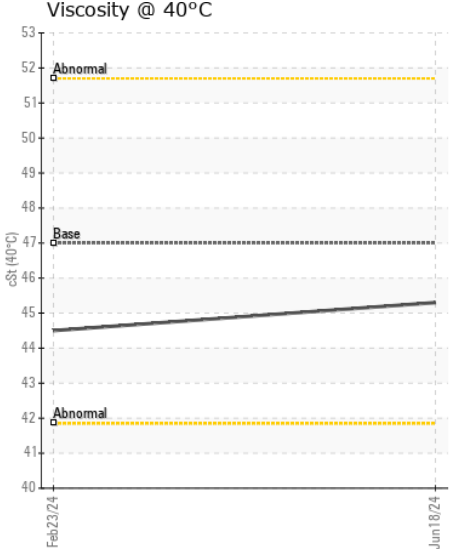
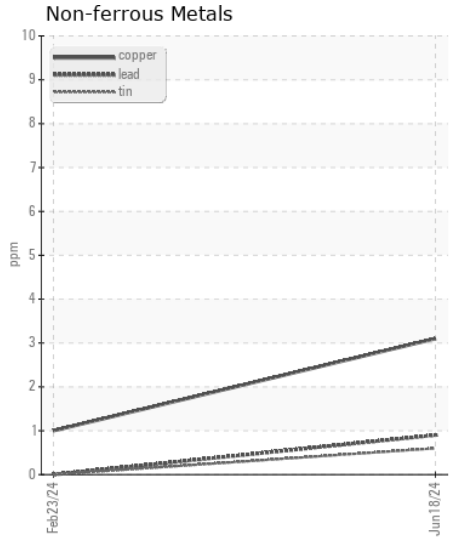
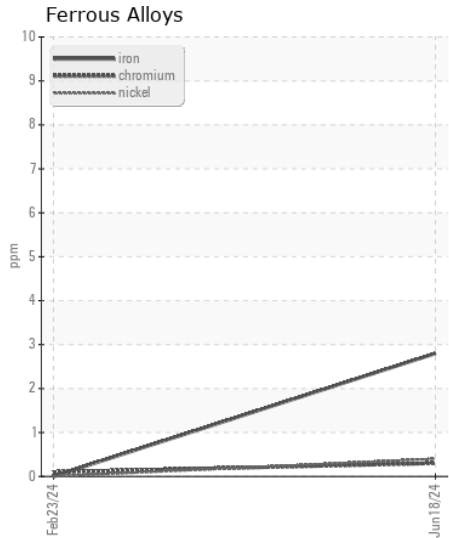
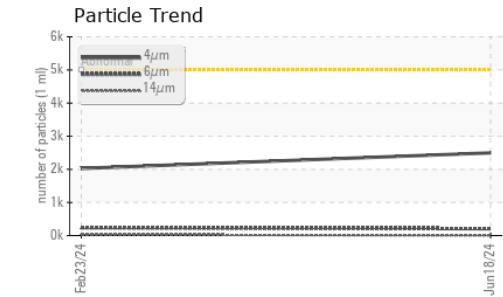
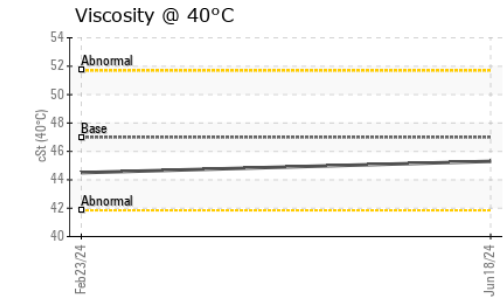
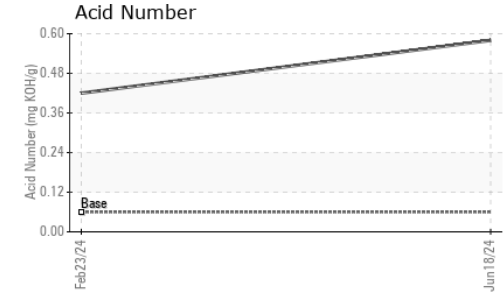
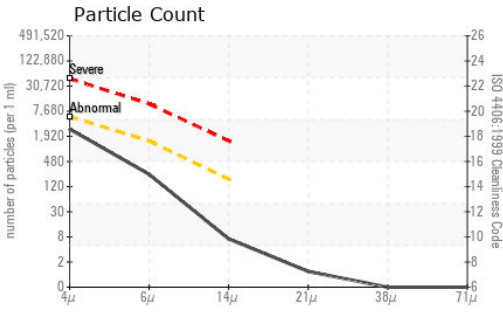
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|----------|-----|
| Silicon | ppm | ASTM D5185m | >20 | 3 | <1 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 0 | --- |
| Water | | WC Method | >0.1 | NEG | NEG | --- |
| Particles >4µm | | ASTM D7647 | >5000 | 2497 | 2027 | --- |
| Particles >6µm | | ASTM D7647 | >1300 | 208 | 239 | --- |
| Particles >14µm | | ASTM D7647 | >160 | 6 | 24 | --- |
| Particles >21µm | | ASTM D7647 | >40 | 1 | 7 | --- |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 0 | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 18/15/10 | 18/15/12 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG | --- |

FLUID CONDITION

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

| | | | | | | |
|------------------|----------|-------------|------|--------------|------|-----|
| Sodium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Boron | ppm | ASTM D5185m | | 0 | 0 | --- |
| Barium | ppm | ASTM D5185m | | 1 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | <1 | 0 | --- |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | 56 | 63 | --- |
| Calcium | ppm | ASTM D5185m | | 471 | 28 | --- |
| Phosphorus | ppm | ASTM D5185m | 827 | 409 | 242 | --- |
| Zinc | ppm | ASTM D5185m | 0 | 467 | 328 | --- |
| Sulfur | ppm | ASTM D5185m | 13 | 1418 | 837 | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.06 | 0.58 | 0.42 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 47 | 45.3 | 44.5 | --- |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211855 **Received** : 21 Jun 2024
Lab Number : 06216759 **Tested** : 24 Jun 2024
Unique Number : 11089623 **Diagnosed** : 24 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)