



OIL ANALYSIS REPORT

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

Machine Id
CASE IH 535 Z8F109453
 Component
Diesel Engine
 Fluid
Schaeffer OTR Plus (12 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | KLM2305793 | KLM2305791 | KLM2340160 |
| Sample Date | | Client Info | | 26 Jun 2024 | 25 Apr 2024 | 14 Apr 2022 |
| Machine Age | hrs | Client Info | | 9712 | 9570 | 7040 |
| Oil Age | hrs | Client Info | | 280 | 138 | 111 |
| Filter Age | hrs | Client Info | | 280 | 138 | 44 |
| Oil Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-------|------|
| Iron | ppm | ASTM D5185m | >90 | 49 | 29 | 6 |
| Chromium | ppm | ASTM D5185m | >20 | 4 | 4 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >2 | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >40 | 5 | <1 | 2 |
| Copper | ppm | ASTM D5185m | >330 | 2 | 0 | <1 |
| Tin | ppm | ASTM D5185m | >15 | 2 | 1 | 2 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | LIGHT | LIGHT | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

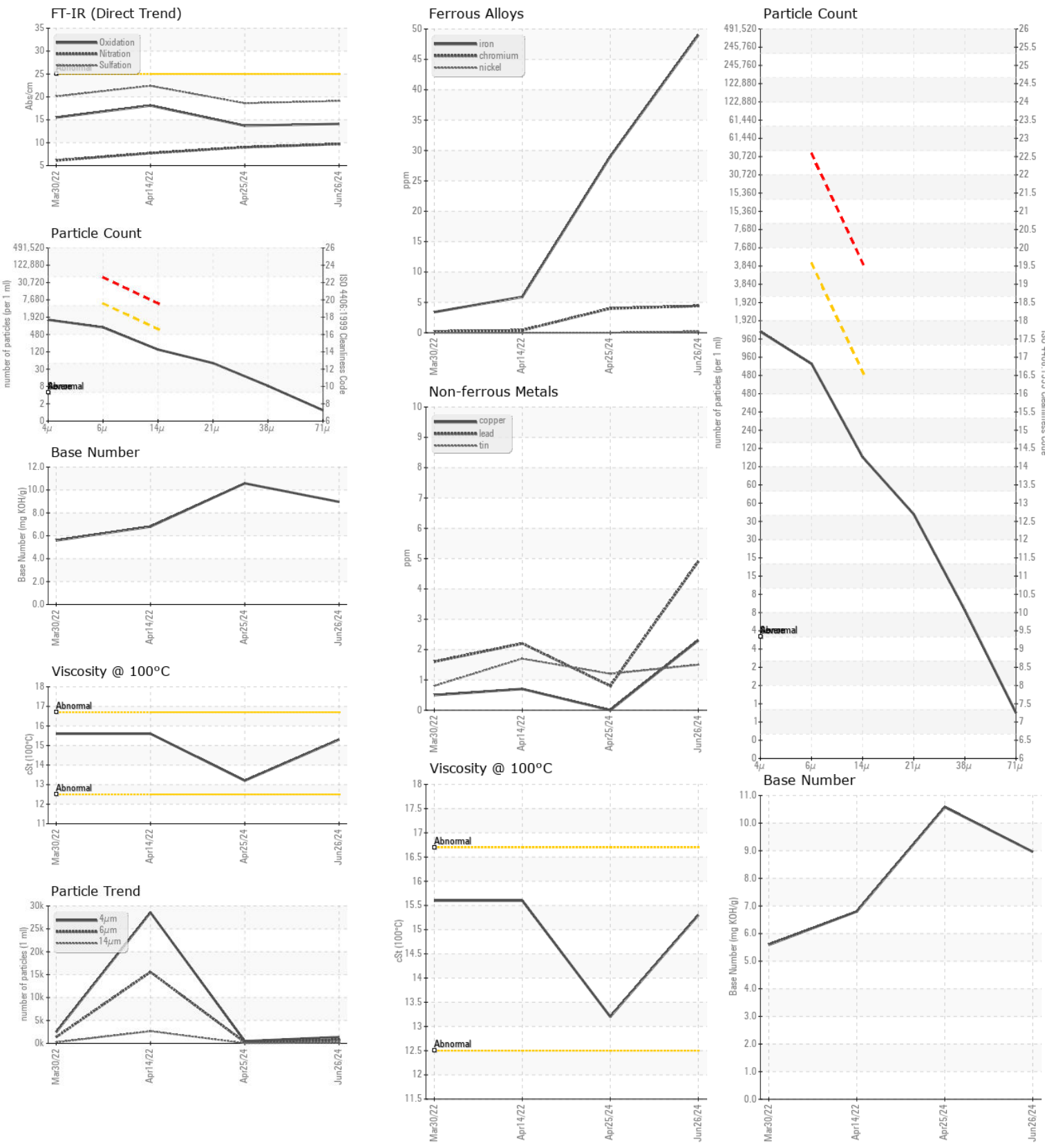
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

| | | | | | | |
|------------------|----------|--------------|--------|----------------|-------|---------|
| Silicon | ppm | ASTM D5185m | >25 | 7 | 5 | 17 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 0 | 4 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >6 | 0.9 | 0.7 | 0.2 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.7 | 9.0 | 7.7 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.1 | 18.6 | 22.4 |
| Particles >4µm | | ASTM D7647 | | 1366 | 470 | 28570 |
| Particles >6µm | | ASTM D7647 | >5000 | 744 | 256 | ▲ 15564 |
| Particles >14µm | | ASTM D7647 | >640 | 127 | 44 | ▲ 2649 |
| Particles >21µm | | ASTM D7647 | >160 | 43 | 15 | ▲ 892 |
| Particles >38µm | | ASTM D7647 | >40 | 7 | 2 | ▲ 138 |
| Particles >71µm | | ASTM D7647 | >10 | 1 | 0 | 14 |
| Oil Cleanliness | | ISO 4406 (c) | >19/16 | 17/14 | 15/13 | ▲ 21/19 |
| 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 | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|-----|--------------|-------|------|
| Sodium | ppm | ASTM D5185m | | 3 | 2 | 2 |
| Boron | ppm | ASTM D5185m | | 25 | 44 | 185 |
| Barium | ppm | ASTM D5185m | | 0 | 1 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 80 | 73 | 13 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 31 | 29 | 77 |
| Calcium | ppm | ASTM D5185m | | 2357 | 2410 | 2083 |
| Phosphorus | ppm | ASTM D5185m | | 953 | 1027 | 1006 |
| Zinc | ppm | ASTM D5185m | | 1198 | 1154 | 1224 |
| Sulfur | ppm | ASTM D5185m | | 5175 | 5079 | 3438 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 14.1 | 13.7 | 18.1 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 8.96 | 10.58 | 6.80 |
| Visc @ 100°C | cSt | ASTM D445 | | 15.3 | 13.2 | 15.6 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KLM2305793 **Received** : 10 Jul 2024
Lab Number : 06232793 **Tested** : 11 Jul 2024
Unique Number : 11116286 **Diagnosed** : 11 Jul 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: PrtCount)

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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)