

Machine Id
JOHN DEERE 340C 740653 (S/N Z0340CX200891)
Component
Diesel Engine
Fluid
CASTROL 15W40 (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PCA0100965 | PCA0091975 | PCA0068833 |
| Sample Date | | Client Info | | 05 Feb 2024 | 02 Mar 2023 | 28 Apr 2022 |
| Machine Age | hrs | Client Info | | 6526 | 6995 | 6786 |
| Oil Age | hrs | Client Info | | 200 | 6995 | 192 |
| Filter Age | hrs | Client Info | | 200 | 200 | 192 |
| Oil Changed | | Client Info | | Changed | N/A | Changed |
| Filter Changed | | Client Info | | Changed | N/A | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >51 | 10 | 8 | 17 |
| Chromium | ppm | ASTM D5185m | >11 | <1 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >31 | 2 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >26 | 1 | <1 | 2 |
| Copper | ppm | ASTM D5185m | >26 | 0 | 0 | 1 |
| Tin | ppm | ASTM D5185m | >4 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

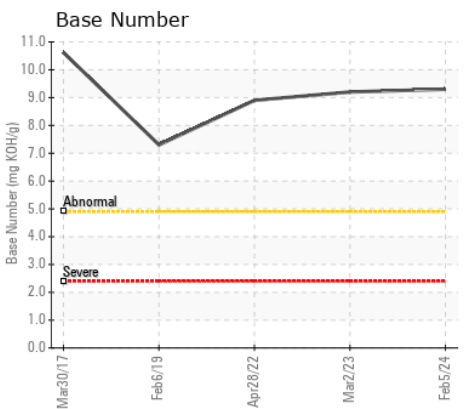
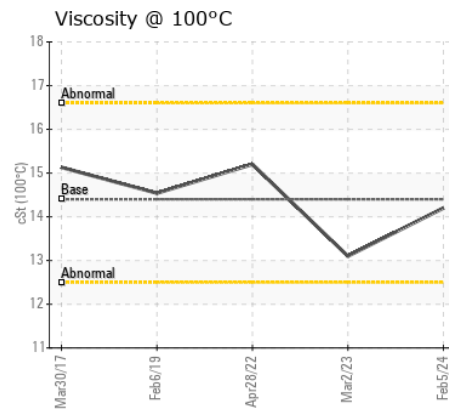
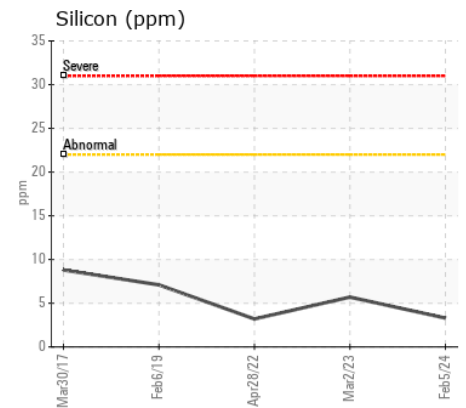
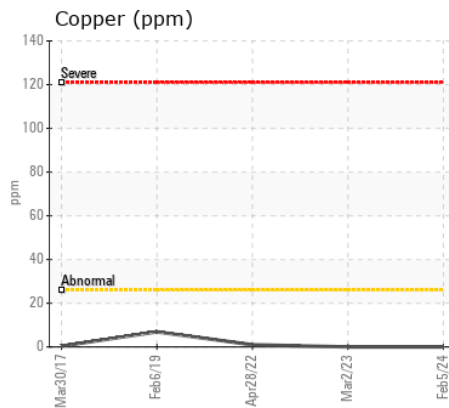
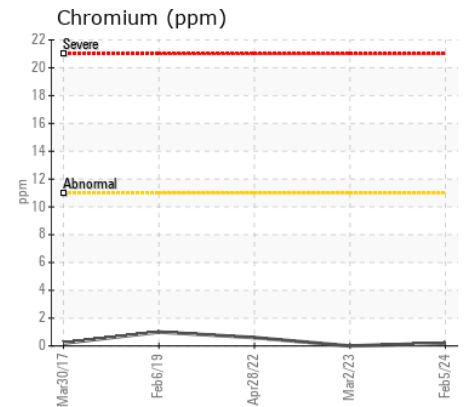
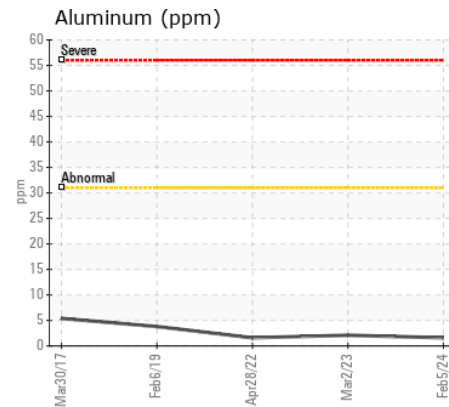
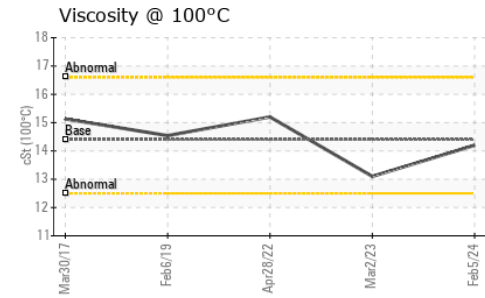
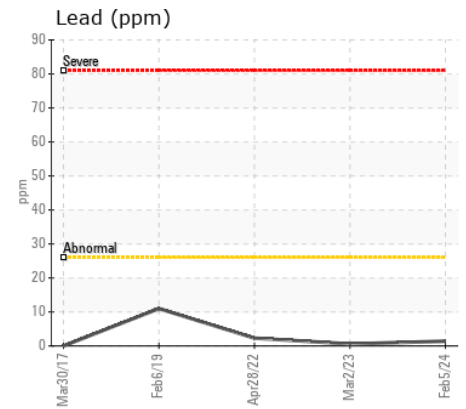
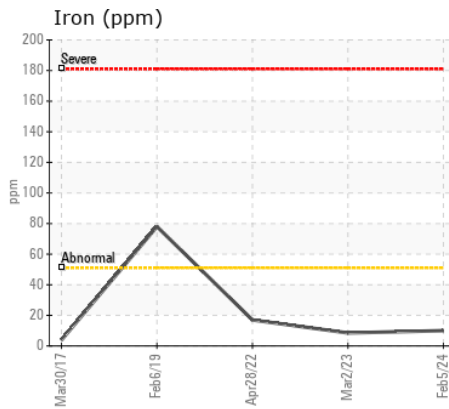
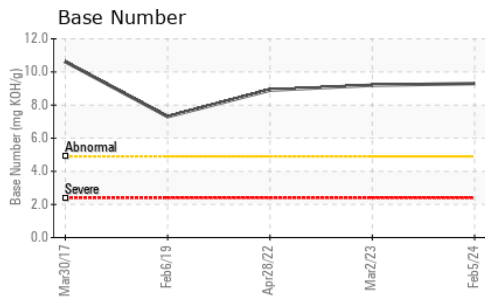
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >22 | 3 | 6 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 2 | 0 |
| Fuel | | WC Method | >2.1 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.21 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.2 | 0.2 | 0.5 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.3 | 6.6 | 9.1 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.1 | 18.9 | 20.4 |
| 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 | >0.21 | 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 | >406 | <1 | <1 | 2 |
| Boron | ppm | ASTM D5185m | | 137 | 184 | 21 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 79 | 163 | 78 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 1252 | 767 | 1075 |
| Calcium | ppm | ASTM D5185m | | 1085 | 1305 | 1214 |
| Phosphorus | ppm | ASTM D5185m | | 1197 | 839 | 1150 |
| Zinc | ppm | ASTM D5185m | | 1454 | 1072 | 1279 |
| Sulfur | ppm | ASTM D5185m | | 3916 | 3324 | 3049 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.4 | 13.3 | 16.5 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 9.3 | 9.2 | 8.9 |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 14.2 | 13.1 | 15.2 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100965 **Received** : 26 Feb 2024
Lab Number : 06099861 **Tested** : 28 Feb 2024
Unique Number : 10898091 **Diagnosed** : 28 Feb 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

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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)