



OIL ANALYSIS REPORT

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

Area
PCL
 Machine Id
JCB 512-56 04F489 (S/N 3267681)
 Component
Diesel Engine
 Fluid
JCB 15W40 (16 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | JCB005415 | --- | --- |
| Sample Date | | Client Info | | 15 Apr 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 999 | --- | --- |
| Oil Age | hrs | Client Info | | 500 | --- | --- |
| Filter Age | hrs | Client Info | | 500 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-----|-----|
| Iron | ppm | ASTM D5185m | >125 | 30 | --- | --- |
| Chromium | ppm | ASTM D5185m | >5 | 2 | --- | --- |
| Nickel | ppm | ASTM D5185m | >4 | 2 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 12 | --- | --- |
| Lead | ppm | ASTM D5185m | >15 | 2 | --- | --- |
| Copper | ppm | ASTM D5185m | >125 | 278 | --- | --- |
| Tin | ppm | ASTM D5185m | >4 | 1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

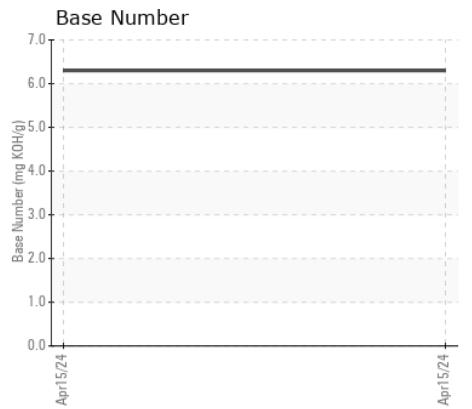
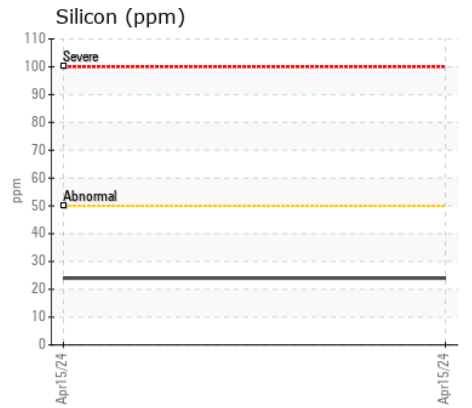
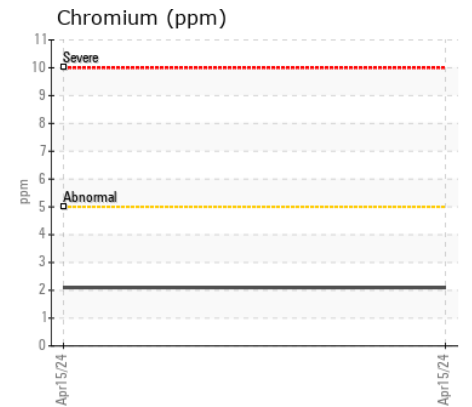
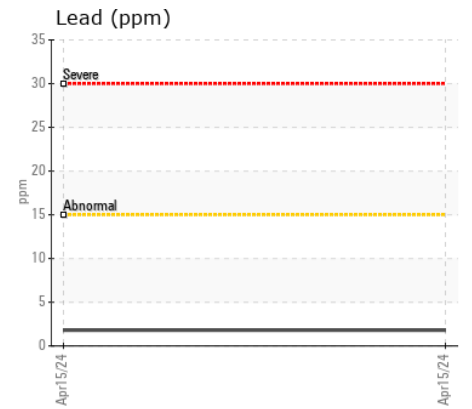
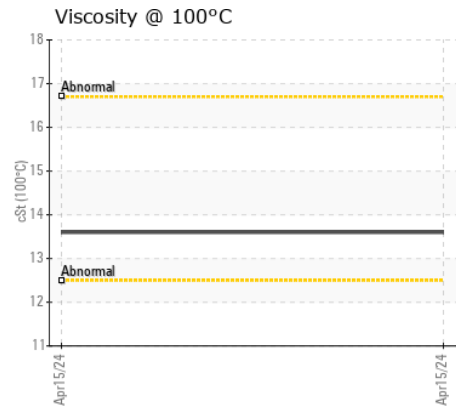
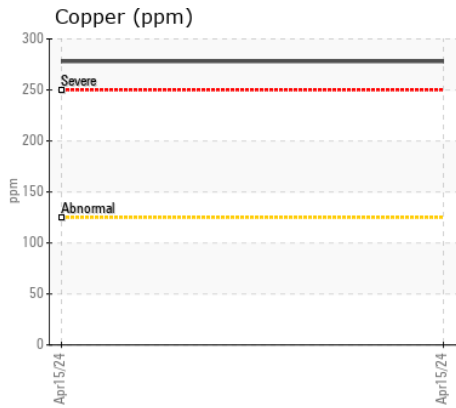
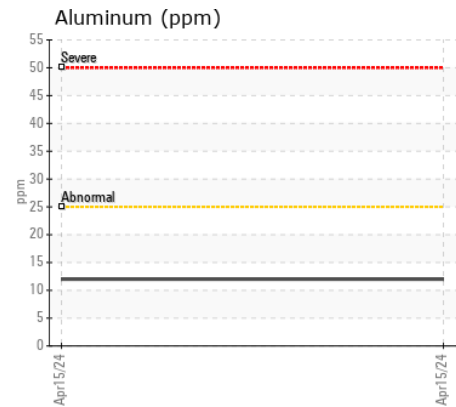
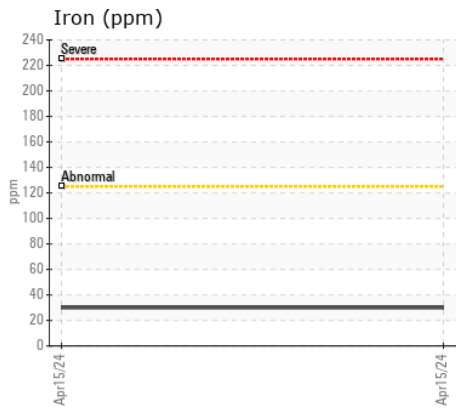
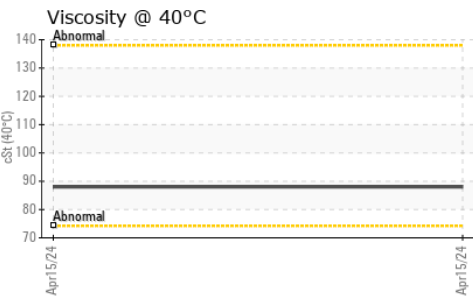
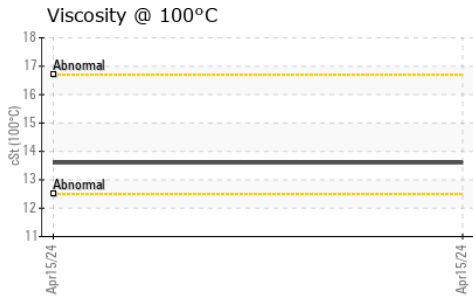
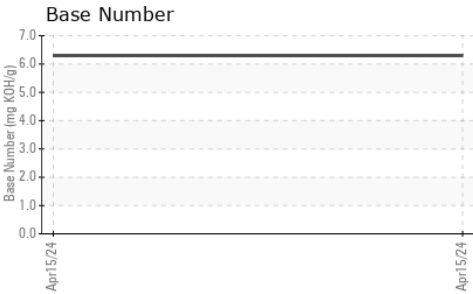
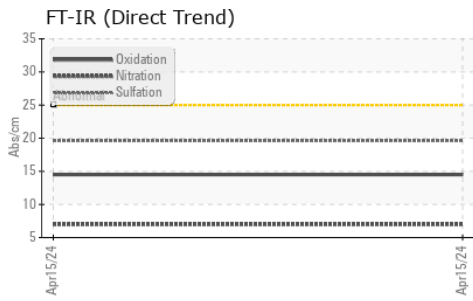
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-----|-----|
| Silicon | ppm | ASTM D5185m | >50 | 24 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 4 | --- | --- |
| Fuel | | WC Method | >5 | <1.0 | --- | --- |
| Water | | WC Method | >0.2 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.1 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.0 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.6 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.2 | 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 | | 2 | --- | --- |
| Boron | ppm | ASTM D5185m | | 118 | --- | --- |
| Barium | ppm | ASTM D5185m | | 2 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 2 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 4 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 68 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 2150 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 952 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 1116 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 3639 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 14.5 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 6.3 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | | 88.0 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | | 13.6 | --- | --- |
| Viscosity Index (VI) | Scale | ASTM D2270 | | 157 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JCB005415
Lab Number : 06152956
Unique Number : 10983034
Test Package : MOB 1 (Additional Tests: KV40, TBN, VI)

Received : 18 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 19 Apr 2024 - Wes Davis

JCB OF AUSTIN - ENERCO LLC - MANOR
 12916 EAST US HWY 290
 MANOR, TX
 US 78653
 Contact:

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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F: