



OIL ANALYSIS REPORT

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

Area
[20242914]
 Machine Id
Cummins 1055 First St
 Component
Natural Gas Engine
 Fluid
Generic Engine Oil (9 QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|------|-------------|-----------|-------------|----------|----------|
| Sample Number | | Client Info | | DC0037084 | --- | --- |
| Sample Date | | Client Info | | 24 Jun 2024 | --- | --- |
| Machine Age | mths | Client Info | | 557 | --- | --- |
| Oil Age | mths | Client Info | | 1 | --- | --- |
| Filter Age | mths | Client Info | | 1 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|------|-----|-----|
| Iron | ppm | ASTM D5185m | >50 | 2 | --- | --- |
| Chromium | ppm | ASTM D5185m | >4 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185m | >2 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >9 | <1 | --- | --- |
| Lead | ppm | ASTM D5185m | >30 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m | >35 | <1 | --- | --- |
| Tin | ppm | ASTM D5185m | >4 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

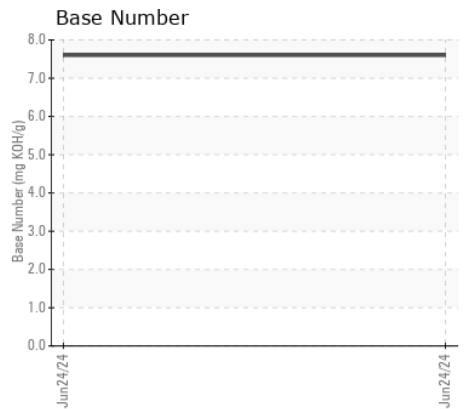
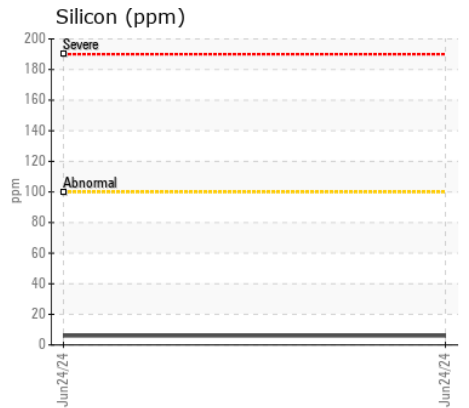
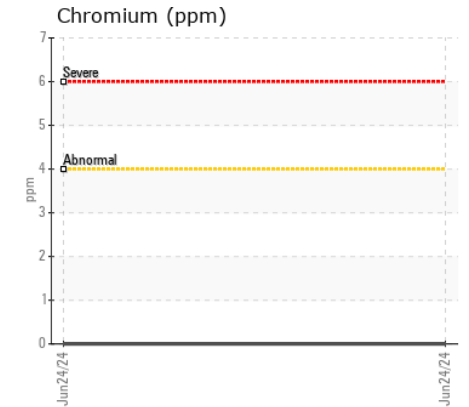
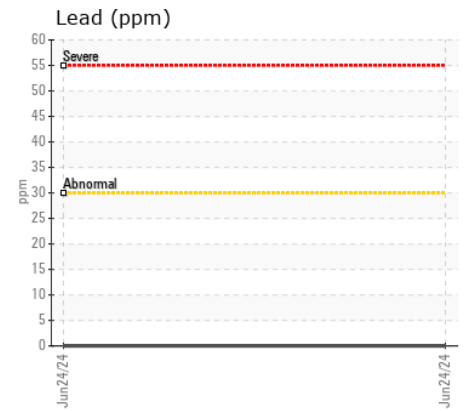
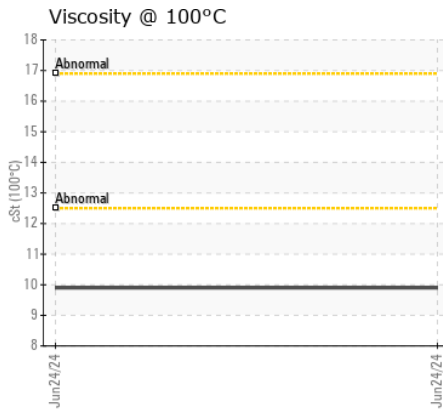
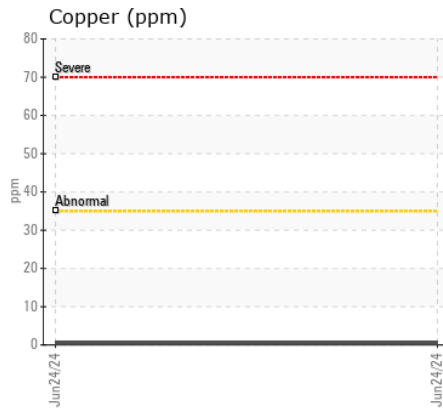
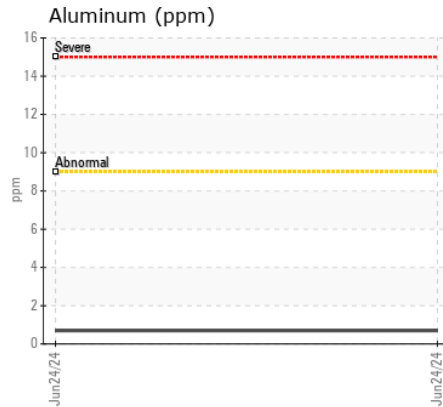
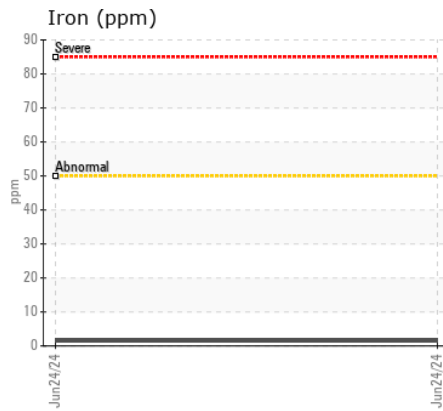
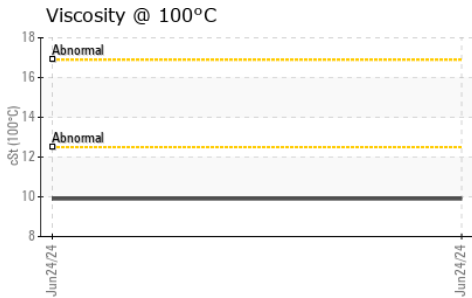
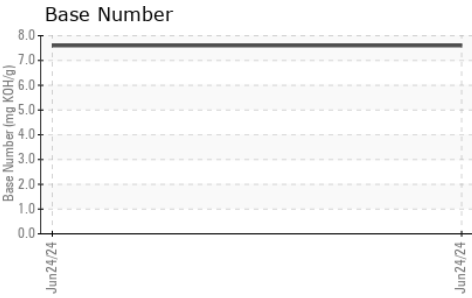
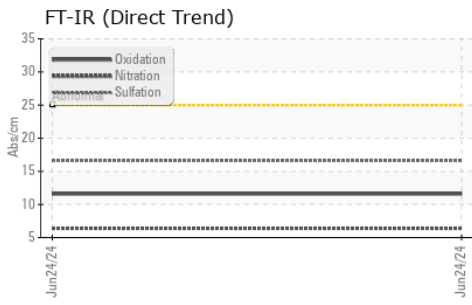
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|-------|-----|-----|
| Silicon | ppm | ASTM D5185m | >+100 | 6 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 1 | --- | --- |
| Water | | WC Method | >0.1 | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | | 0 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 6.4 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 16.6 | --- | --- |
| 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 | >0.1 | NEG | --- | --- |

FLUID CONDITION

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

| | | | | | | |
|------------------|----------|-------------|-----|------|-----|-----|
| Sodium | ppm | ASTM D5185m | | <1 | --- | --- |
| Boron | ppm | ASTM D5185m | | 82 | --- | --- |
| Barium | ppm | ASTM D5185m | | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 47 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 0 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 611 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 1428 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 789 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 992 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 3471 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 11.6 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 7.6 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | | 9.9 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0037084 **Received** : 11 Jul 2024
Lab Number : 06234168 **Tested** : 12 Jul 2024
Unique Number : 11123002 **Diagnosed** : 14 Jul 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

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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