



OIL ANALYSIS REPORT

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

Machine Id
MACK R-7
 Component
Diesel Engine
 Fluid
10W30 DURON SEMI (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | LP0001335 | LP0001107 | LP0000563 |
| Sample Date | | Client Info | | 01 Feb 2024 | 25 Oct 2023 | 15 Aug 2023 |
| Machine Age | hrs | Client Info | | 18688 | 18188 | 17786 |
| Oil Age | hrs | Client Info | | 450 | 400 | 450 |
| Filter Age | hrs | Client Info | | 450 | 400 | 450 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 8 | 10 | 10 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | <1 | 1 | 1 |
| Lead | ppm | ASTM D5185m | >40 | <1 | 1 | <1 |
| Copper | ppm | ASTM D5185m | >330 | <1 | 1 | <1 |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

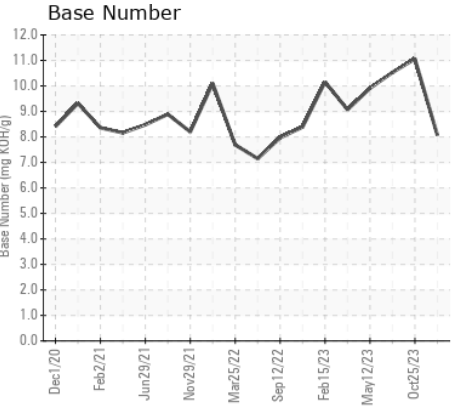
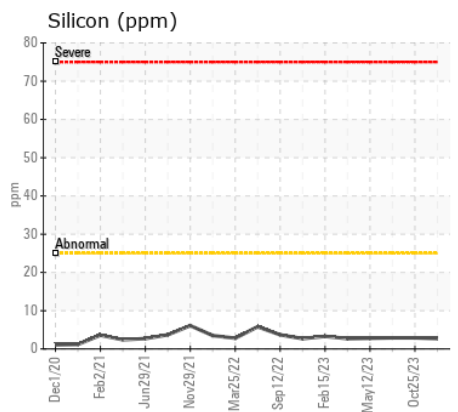
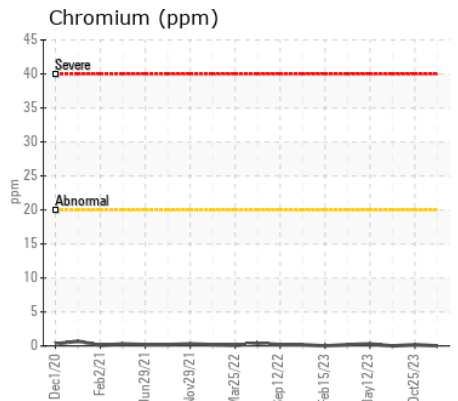
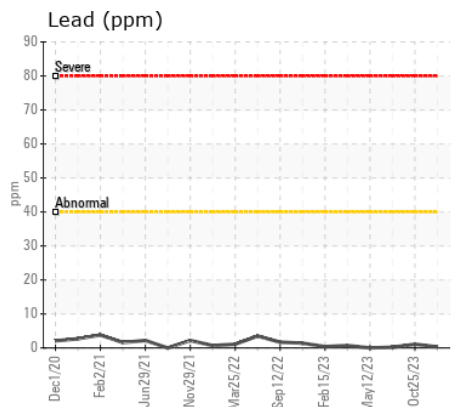
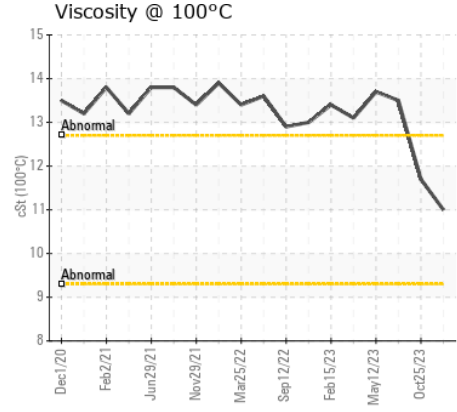
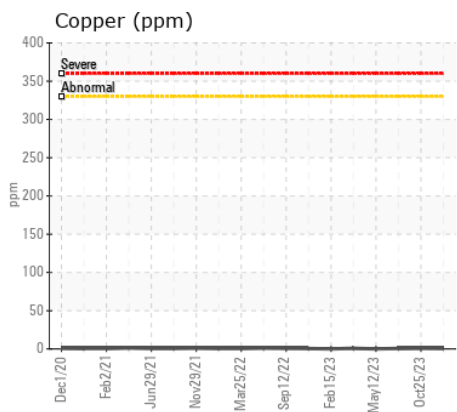
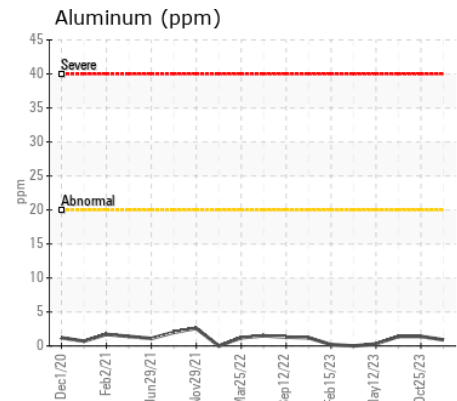
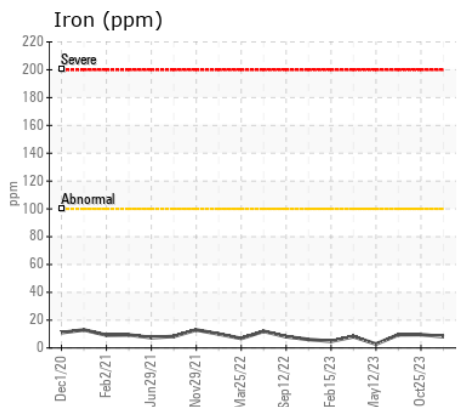
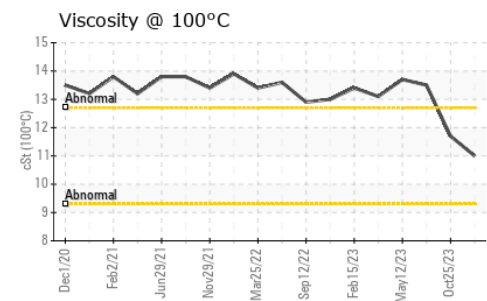
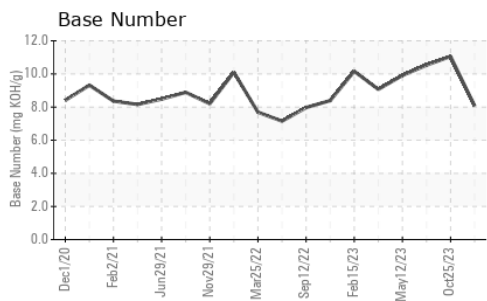
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 3 | 3 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 3 | 3 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.2 | 0.3 | 0.3 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.6 | 7.7 | 7.5 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 18.5 | 19.2 | 19.3 |
| 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 | | 4 | 3 | 5 |
| Boron | ppm | ASTM D5185m | | 19 | 1 | 6 |
| Barium | ppm | ASTM D5185m | | 0 | 4 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 60 | 60 | 60 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | 902 | 909 | 984 |
| Calcium | ppm | ASTM D5185m | | 992 | 1019 | 1150 |
| Phosphorus | ppm | ASTM D5185m | | 1034 | 1007 | 1019 |
| Zinc | ppm | ASTM D5185m | | 1228 | 1223 | 1274 |
| Sulfur | ppm | ASTM D5185m | | 3028 | 3137 | 3686 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 14.8 | 15.6 | 15.3 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 8.07 | 11.06 | 10.53 |
| Visc @ 100°C | cSt | ASTM D445 | | 11.0 | 11.7 | 13.5 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0001335
Lab Number : 06084347
Unique Number : 10871792
Test Package : MOB 2
Received : 08 Feb 2024
Tested : 09 Feb 2024
Diagnosed : 09 Feb 2024 - Wes Davis

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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)