



LEAHY-WOLF
Lubricating specialists since 1946

OIL ANALYSIS REPORT

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

Machine Id
DODGE 52
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

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 | | LW0009376 | LW0005162 | LW0009030 |
| Sample Date | | Client Info | | 08 Jul 2024 | 23 Apr 2024 | 14 Mar 2024 |
| Machine Age | mls | Client Info | | 0 | 0 | 0 |
| Oil Age | mls | Client Info | | 0 | 0 | 0 |
| Filter Age | mls | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|-------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 8 | 25 | 23 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 2 | 3 |
| Lead | ppm | ASTM D5185m | >40 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >330 | 17 | 34 | 41 |
| Tin | ppm | ASTM D5185m | >15 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

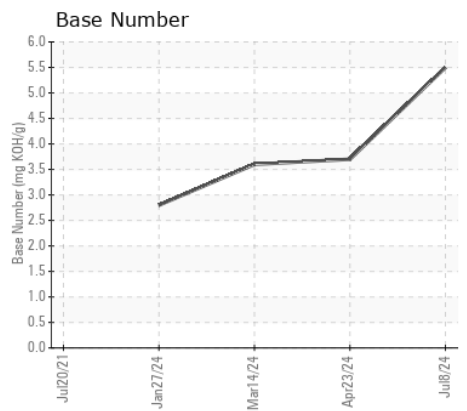
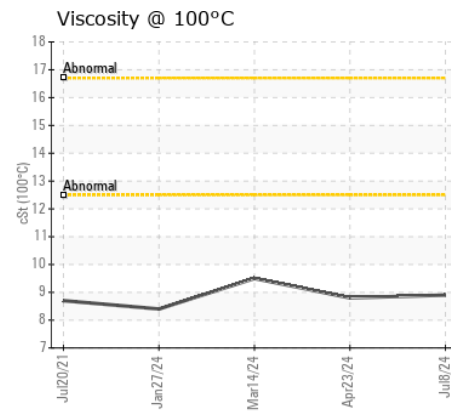
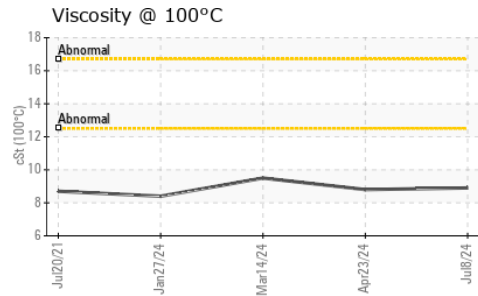
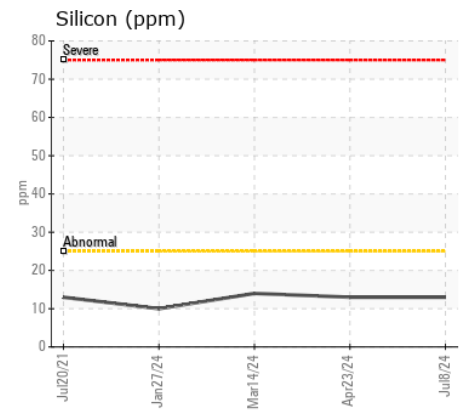
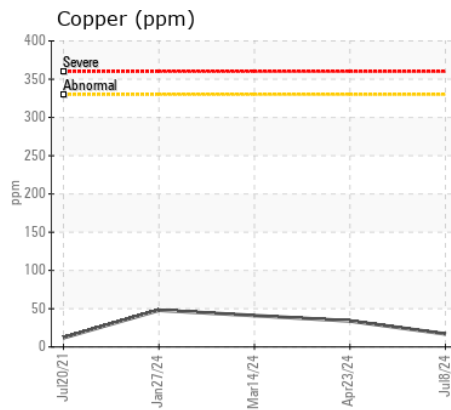
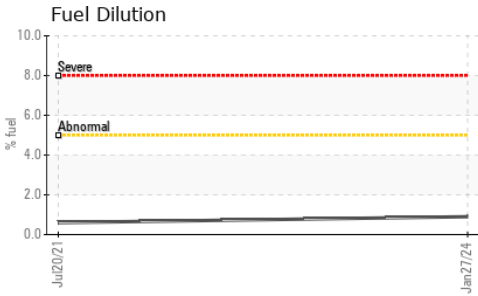
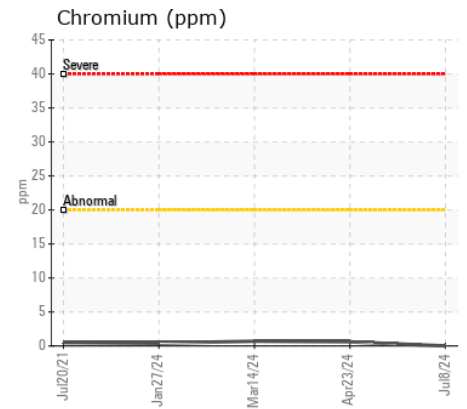
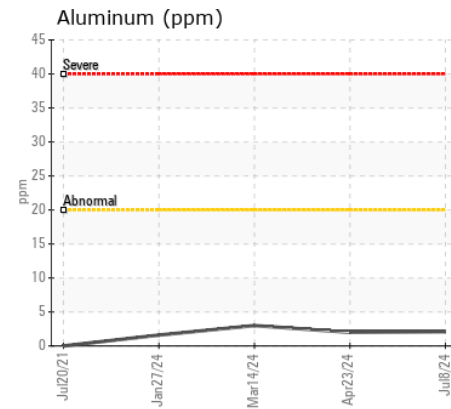
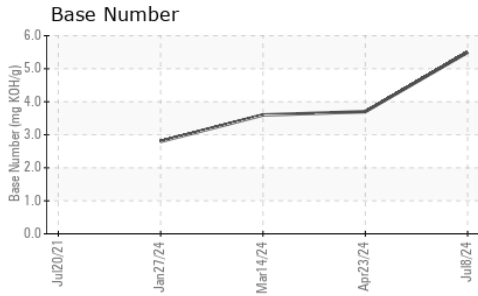
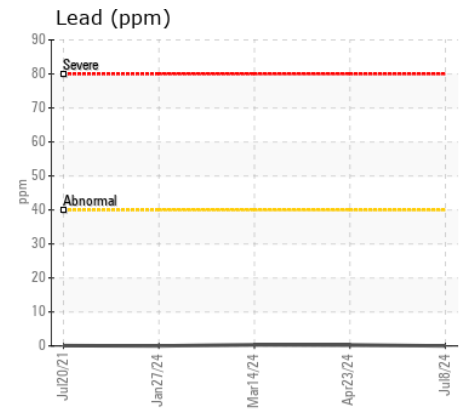
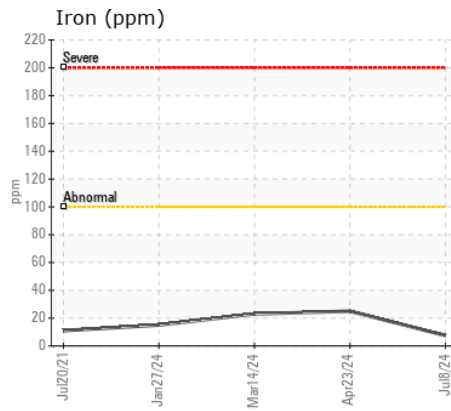
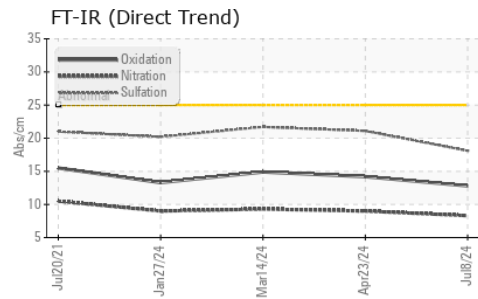
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 13 | 13 | 14 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 3 | 4 |
| Fuel | % | ASTM D3524 | >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 | 0 | 0 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.3 | 9.0 | 9.3 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 18.1 | 21.1 | 21.7 |
| 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 | | <1 | 0 | 4 |
| Boron | ppm | ASTM D5185m | | 27 | 42 | 54 |
| Barium | ppm | ASTM D5185m | | 0 | 2 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 206 | 50 | 79 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | | 443 | 555 | 537 |
| Calcium | ppm | ASTM D5185m | | 1191 | 881 | 1029 |
| Phosphorus | ppm | ASTM D5185m | | 602 | 612 | 667 |
| Zinc | ppm | ASTM D5185m | | 754 | 684 | 724 |
| Sulfur | ppm | ASTM D5185m | | 2077 | 2143 | 2462 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 12.8 | 14.2 | 14.9 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 5.5 | 3.7 | 3.6 |
| Visc @ 100°C | cSt | ASTM D445 | | 8.9 | 8.8 | 9.5 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LW0009376
Lab Number : 06232910
Unique Number : 11116403
Test Package : MOB 1 (Additional Tests: FuelDilution, TBN)

Received : 11 Jul 2024
Tested : 11 Jul 2024
Diagnosed : 13 Jul 2024 - Don Baldridge

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)

LRS - NILES
 33541 REUM RD
 NILES, MI
 US 49120

Contact: JEDI ATCHISON
 josepha@michianarecyclinganddisposal.com

T: (269)845-3153

F: