



WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

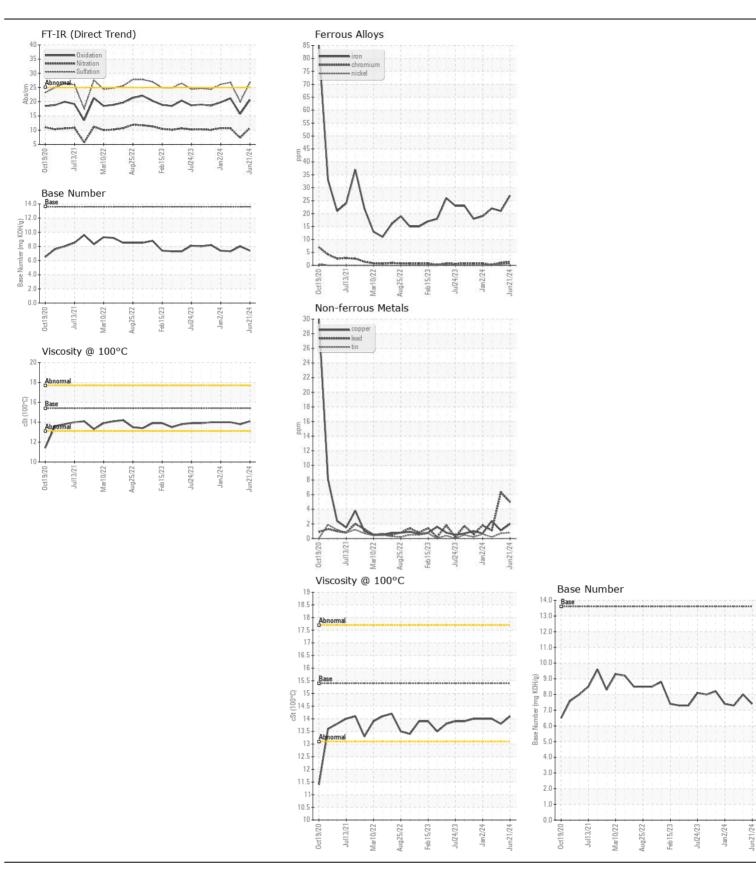
Store 9 - Marietta [RO#152382]

PETERBILT 367 667 (S/N 1XPTD40X4LD685993)

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (44 QTS)

| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|--------------------|----------|--------------------------|-----------|-------------|-------------|------------|
| TEOOMWENDATION | Sample Number | | Client Info | | LEC0049991 | LEC0048744 | LEC004850 |
| Resample at the next service interval to monitor. (Customer Sample Comment: UNIT 667) | Sample Date | | Client Info | | 21 Jun 2024 | 03 May 2024 | 01 Mar 202 |
| | Machine Age | mls | Client Info | | 340344 | 325197 | 309142 |
| | Oil Age | mls | Client Info | | 15147 | 16055 | 15952 |
| | Filter Age | mls | Client Info | | 15147 | 16055 | 15952 |
| | Oil Changed | | Client Info | | Changed | Changed | Changed |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | | | NORMAL | NORMAL | NORMAI |
| WEAR | Iron | ppm | ASTM D5185m | >110 | 27 | 21 | 22 |
| | Chromium | ppm | ASTM D5185m | >4 | 1 | 1 | <1 |
| All component wear rates are normal. | Nickel | ppm | ASTM D5185m | >2 | <1 | <1 | 0 |
| | Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| | Silver | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | | 13 | 8 | 8 |
| | Lead | ppm | ASTM D5185m | >45 | 5 | 6 | 1 |
| | Copper | ppm | ASTM D5185m | | 2 | 1 | 2 |
| | Tin | ppm | ASTM D5185m | | <1 | <1 | <1 |
| | Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NON |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NON |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >!20 | 11 | 8 | 7 |
| JOHN AMINITATION | Potassium | ppm | ASTM D5185m | | 8 | 4 | 2 |
| There is no indication of any contamination in the oil. | Fuel | pp | WC Method | | <1.0 | <1.0 | <1.0 |
| | Water | | WC Method | | NEG | NEG | NEG |
| | Glycol | | WC Method | 7 0.2 | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | >3 | 0.9 | 0.3 | 0.7 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 10.8 | 7.3 | 10.6 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | | 26.8 | 20.0 | 26.8 |
| | Silt | scalar | *Visual | NONE | NONE | NONE | NON |
| | Debris | scalar | *Visual | NONE | NONE | NONE | NONI |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NON |
| | Appearance | scalar | *Visual | NORML | NORML | NORML | NORM |
| | Odor | scalar | *Visual | NORML | NORML | NORML | NORN |
| | Emulsified Water | | *Visual | >0.2 | NEG | NEG | NEG |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | | 1 | 1 | 2 |
| | Boron | ppm | ASTM D5185m | | 94 | 99 | 116 |
| The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. | Barium | ppm | ASTM D5185m | | 2 | <1 | 0 |
| | Molybdenum | ppm | ASTM D5185m | | 294 | 254 | 262 |
| | Manganese | ppm | ASTM D5185m | | 1 | <1 | <1 |
| | Magnesium | ppm | ASTM D5185m | | 908 | 770 | 825 |
| | Calcium | ppm | ASTM D5185m | | 1697 | 1401 | 1441 |
| | Phosphorus | ppm | ASTM D5185m | | 965 | 892 | 922 |
| | Zinc | ppm | ASTM D5185m | | 1287 | 1058 | 1113 |
| | Sulfur | ppm | ASTM D5185m | | 3267 | 2829 | 2727 |
| | Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 20.7 | 15.7 | 21.2 |
| | Base Number (BN) | | ASTM D7414 ASTM D2896 | | 7.4 | 8.0 | 7.3 |
| | Race Milmor (Rivi) | | | | | | |







Certificate L2367

Laboratory Sample No.

: LEC0049991 Lab Number : 06219531

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received **Tested** Unique Number : 11097728 Diagnosed

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 25 Jun 2024

: 26 Jun 2024

: 26 Jun 2024 - Don Baldridge

Test Package : CONST (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.

LESLIE EQUIPMENT COMPANY

105 TENNIS CENTER DR. MARIETTA, OH US 45750-9765

Contact: LEANNE KENDALL

KendalLeanne@lec1.com T:

F: (740)373-5570