

Machine Id CATERPILLAR LT-300

Diesel Engine

FLEETLINE SUPERFLEET XHD 15W40 (--- GAL)

| | ····· | / | | | | | |
|---|--------------------|------------------|--------------------|----------------|----------------|---------------|---------------|
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | LP0001917 | | LP0001363 |
| | Sample Date | | Client Info | | 03 May 2024 | | 12 Dec 2023 |
| | Machine Age | hrs | Client Info | | 4983 | 4477 | 4080 |
| | Oil Age | hrs | Client Info | | 336 | 250 | 250 |
| | Filter Age | hrs | Client Info | | 336 | 250 | 250 |
| | 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 | 10 | 4 | 5 |
| | Chromium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| | Nickel | ppm | ASTM D5185m | | <1 | 0 | 0 |
| | Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| | Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | | 2 | 2 | 2 |
| | Lead | ppm | ASTM D5185m | | 2 | 2 | 1 |
| | Copper | ppm | ASTM D5185m | | 5 | 3 | 5 |
| | Tin | ppm | ASTM D5185m | | <1 | 0 | <1 |
| | Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| CONTAMINATION | | | | | | | |
| | Silicon | ppm | ASTM D5185m | | 7 | 8 | 8 |
| There is no indication of any contamination in the oil. | Potassium | ppm | ASTM D5185m | | 5 | 0 | <1 |
| | Fuel | | WC Method | | <1.0 | <1.0 | <1.0 |
| | Water | | WC Method | >0.2 | NEG | NEG | NEG |
| | Glycol | <u> </u> | WC Method | 0 | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | | 0.2 | 0.2 | 0.2 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 9.2 | 8.6 | 7.8 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | | 20.3 | 19.3 | 19.3 |
| | Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | NONE NORML | NONE NORML |
| | Appearance Odor | scalar scalar | *Visual *Visual | NORML NORML | NORML NORML | NORML | NORML |
| | Emulsified Water | | *Visual | >0.2 | NEG | NEG | NEG |
| | | Scalai | visuai | 20.2 | | NLG | NLQ |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | | 5 | 0 | <1 |
| | Boron | ppm | ASTM D5185m | | 13 | 7 | 11 |
| 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 | | 0 | 0 | 0 |
| | Molybdenum | ppm | ASTM D5185m | | 12 | 16 | 20 |
| | Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| | Magnesium | ppm | ASTM D5185m | | 125 | 173 | 269 |
| | Calcium | ppm | ASTM D5185m | | 2244 | 1995 | 1988 |
| | Phosphorus | ppm | ASTM D5185m | | 947 | 829 | 956 |
| | Zinc | ppm | ASTM D5185m | | 1093 | 1101 | 1130 |
| | Sulfur | ppm | ASTM D5185m | | 4101 | 3276 | 3383 |
| | Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 14.5 | 13.6 | 14.8 |
| | Base Number (BN) | mg KOH/g | ASTM D2896 | | 6.89 | 8.36 | 8.45 |
| | Vian @ 10000 | - 04 | AOTA DAAF | 1 - 0 | 101 | 10.0 | 10.4 |

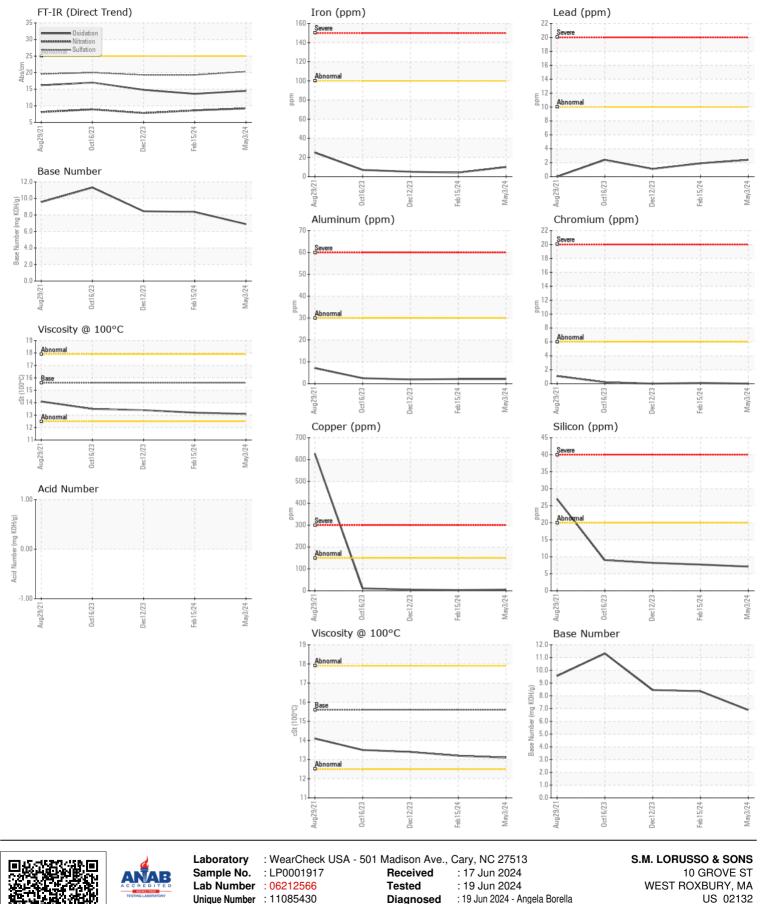
Visc @ 100°C cSt

ASTM D445 15.6

13.2

13.4

13.1



Certificate L2367 Test Package : MOB 2 (Additional Tests: TAN Man) 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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