

Machine Id CATERPILLAR END DUMP 773B ED3

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (6 GAL)

| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|------------------|----------|---------------|-----------|-------------|-------------|-------------|
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | LP0001452 | WC0802318 | WC0570056 |
| | Sample Date | | Client Info | | 12 Jun 2024 | 09 May 2023 | 05 Mar 2022 |
| | Machine Age | hrs | Client Info | | 51229 | 48446 | 46415 |
| | Oil Age | hrs | Client Info | | 500 | 500 | 500 |
| | Filter Age | hrs | Client Info | | 500 | 500 | 500 |
| | 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 | 5 | 9 | 26 |
| | Chromium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| | Nickel | ppm | ASTM D5185m | | <1 | <1 | <1 |
| | Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| | Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | | 2 | 0 | 2 |
| | Lead | ppm | ASTM D5185m | | _ <1 | 0 | 2 |
| | Copper | ppm | ASTM D5185m | | 2 | 1 | 2 |
| | Tin | ppm | ASTM D5185m | | _ <1 | 0 | <1 |
| | Vanadium | ppm | ASTM D5185m | 210 | 0 | <1 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | | Scalai | visuai | | | NONL | NONL |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >25 | 3 | 6 | 3 |
| There is no indication of any contemination in the cit | Potassium | ppm | ASTM D5185m | >20 | 6 | 0 | 0 |
| There is no indication of any contamination in the oil. | 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 | 0.1 | 0.4 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 6.6 | 7.4 | 10.5 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 16.2 | 17.6 | 21.0 |
| | 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 | Sodium | ppm | ASTM D5185m | >158 | 4 | 2 | 2 |
| | Boron | ppm | ASTM D5185m | 250 | 12 | 31 | 12 |
| 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 | 10 | 0 | 0 | 0 |
| | Molybdenum | ppm | ASTM D5185m | 100 | 23 | 69 | 63 |
| | Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| | Magnesium | ppm | ASTM D5185m | 450 | 284 | 609 | 1014 |
| | Calcium | ppm | ASTM D5185m | | 1850 | 1442 | 1205 |
| | Phosphorus | ppm | ASTM D5185m | | 955 | 1029 | 1106 |
| | Zinc | ppm | ASTM D5185m | 1350 | 1079 | 1215 | 1274 |
| | Sulfur | ppm | ASTM D5185m | | 4042 | 3463 | 2934 |
| | Oxidation | Abs/.1mm | *ASTM D310311 | | 10.9 | 13.5 | 18.7 |
| | Base Number (BN) | | | | 9.32 | 9.97 | 10.5 |
| | | | | 0.0 | 5.52 | 3.37 | 10.0 |

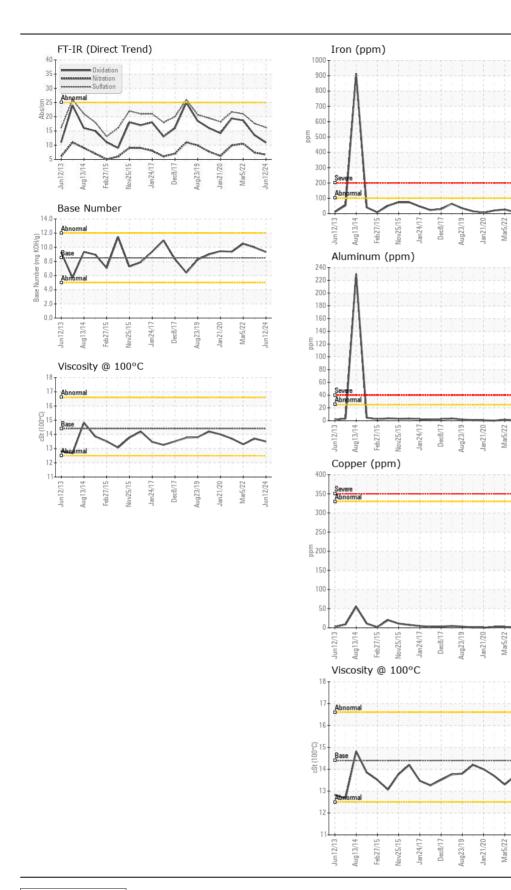
Visc @ 100°C cSt

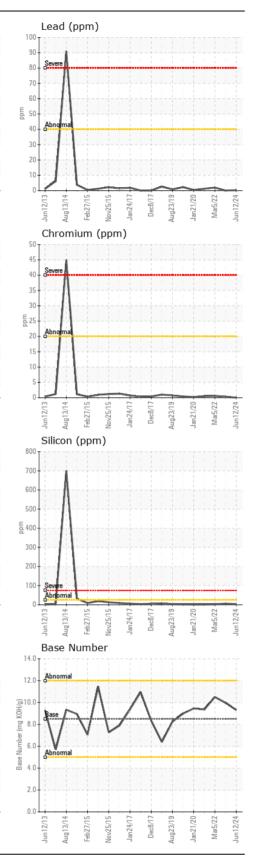
ASTM D445 14.4

13.7

13.3

13.5





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: 17 Jun 2024

: 19 Jun 2024





Test Package : MOB 2 Certificate L2367 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)

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

Received

Diagnosed

Tested

Laboratory

Sample No.

Lab Number : 06212564

Unique Number : 11085428

: LP0001452