

Δre

| | [W/O 10803] |
|-----|--------------------|
| 2- | VOLVO A30G 742461 |
| 200 | Diesel Engine |
| - | CHEVRON 15W40 (10) |

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ATTENTION

| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--|------------------|----------|--------------|-----------|-------------|-----------|-------------|
| TEOOMMENDATION | Sample Number | 00111 | Client Info | | ML0001318 | - | VCP264555 |
| Oil and filter change at the time of sampling has been noted. Resample | Sample Date | | Client Info | | 16 May 2024 | | 13 Dec 2019 |
| at the next service interval to monitor. | Machine Age | hrs | Client Info | | 2923 | 1802 | 1255 |
| | Oil Age | hrs | Client Info | | 1121 | 0 | 0 |
| | Filter Age | hrs | Client Info | | 1121 | 0 | 0 |
| | Oil Changed | 1110 | Client Info | | Changed | Changed | Changed |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | Gliotit Inio | | ATTENTION | ATTENTION | ATTENTION |
| WEAR | Iron | ppm | ASTM D5185m | >100 | 9 | 8 | 17 |
| | Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| All component wear rates are normal. | Nickel | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| | Titanium | ppm | ASTM D5185m | | <1 | 13 | 12 |
| | Silver | ppm | ASTM D5185m | >2 | <1 | <1 | 0 |
| | Aluminum | ppm | ASTM D5185m | >25 | 3 | 2 | 2 |
| | Lead | ppm | ASTM D5185m | | <1 | <1 | 0 |
| | Copper | ppm | ASTM D5185m | >330 | 5 | 10 | 56 |
| | Tin | ppm | ASTM D5185m | | 2 | 1 | 1 |
| | Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | | | | | | | |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >25 | 5 | 6 | 9 |
| | Potassium | ppm | ASTM D5185m | >20 | 2 | 2 | 2 |
| There is no indication of any contamination in the oil. | Fuel | % | ASTM D3524 | >6.0 | <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 | 0.2 | 0.5 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 7.9 | 10.1 | 9.3 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 18.6 | 20.6 | 20.6 |
| | 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 | >50 | 3 | 2 | 3 |
| | Boron | ppm | ASTM D5185m | | 80 | 69 | 28 |
| The oil viscosity is lower than normal. The BN result indicates that | Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| there is suitable alkalinity remaining in the oil. Confirm oil type. | Molybdenum | ppm | ASTM D5185m | | 51 | 23 | 24 |
| | Manganese | ppm | ASTM D5185m | | <1 | <1 | 1 |
| | Magnesium | ppm | ASTM D5185m | | 333 | 697 | 611 |
| | Calcium | ppm | ASTM D5185m | | 1670 | 1507 | 1479 |
| | Phosphorus | ppm | ASTM D5185m | | 779 | 675 | 669 |
| | Zinc | ppm | ASTM D5185m | | 1063 | 789 | 759 |
| | Sulfur | ppm | ASTM D5185m | | 3111 | 2830 | 564 |
| | Out deathers | AL / 4 | **** | 05 | | 44.0 | 45 |

Oxidation

Visc @ 100°C cSt

Abs/.1mm *ASTM D7414 >25

ASTM D445 14.4

Base Number (BN) mg KOH/g ASTM D2896

14.6

7.4

11.1

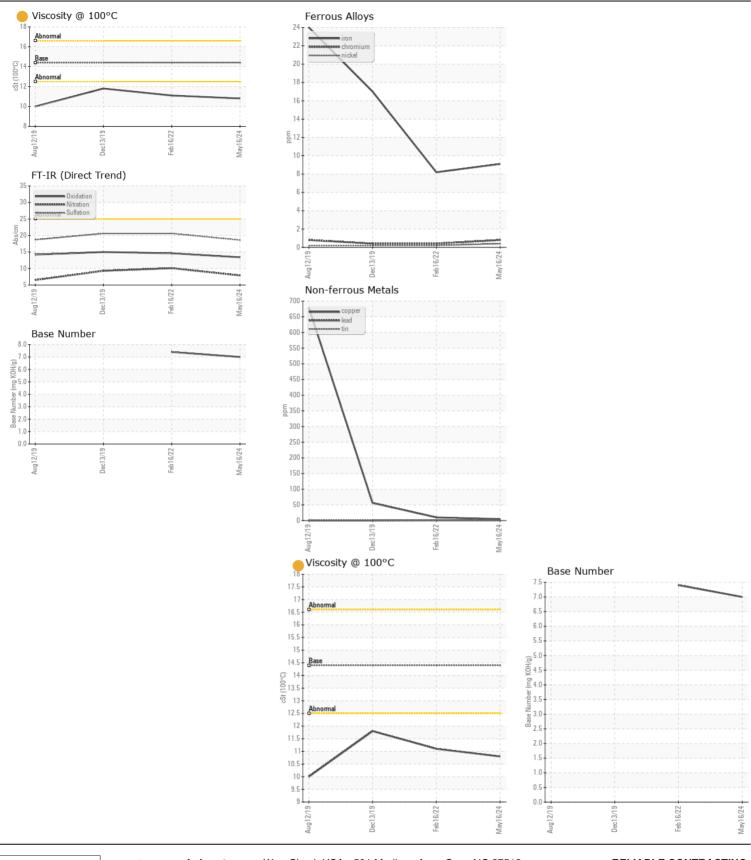
15

11.8

13.4

7.0

10.8



RELIABLE CONTRACTING Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 2410 EVERGREEN RD SUITE 200 : ML0001318 : 24 May 2024 Lab Number : 06190333 : 29 May 2024 GAMBRILLS, MD Tested : 29 May 2024 - Don Baldridge US 21054 Unique Number : 11047085 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: RUSSELL HATFIELD Certificate L2367 RHATFIELD@RELIABLECONTRACTING.COM 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. T: (410)987-1851 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)