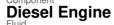
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

Area

WMR-Plymouth 752128 VOLVO A45G 752128



| Fluid LIDS 66 15W40 (GAL) | | | | | | | |
|---|-------------------------|--------------|----------------------------|----------------|--------------|--------------|----------|
| PHILLIPS 66 15W40 (GAL) | | | | | | | |
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Oil and filter change at the time of compline has been noted. No | Sample Number | | Client Info | | DJJ0009061 | DJJ0009054 | |
| Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. | Sample Date | | Client Info | | 21 May 2024 | 28 Mar 2024 | |
| | Machine Age | hrs | Client Info | | 646 | 309 | |
| | Oil Age | hrs | Client Info | | 300 | 309 | |
| | Filter Age | hrs | Client Info | | 300 | 309 | |
| | Oil Changed | | Client Info | | Changed | Changed | |
| | Filter Changed | | Client Info | | Changed | Changed | |
| | Sample Status | | | | ATTENTION | ATTENTION | |
| WEAR | Iron | ppm | ASTM D5185m | >100 | 8 | 9 | |
| WEAR | Chromium | ppm | ASTM D5185m | | <1 | 1 | |
| All component wear rates are normal. | Nickel | ppm | ASTM D5185m | | 2 | 2 | |
| | Titanium | ppm | ASTM D5185m | _ | - <1 | 0 | |
| | Silver | ppm | ASTM D5185m | >2 | 0 | 0 | |
| | Aluminum | ppm | ASTM D5185m | | 1 | 4 | |
| | Lead | ppm | ASTM D5185m | >40 | <1 | 2 | |
| | Copper | ppm | ASTM D5185m | >330 | 15 | 33 | |
| | Tin | ppm | ASTM D5185m | >15 | 2 | 4 | |
| | Vanadium | ppm | ASTM D5185m | | 0 | <1 | |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | |
| | | | | | | | |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | | 8 | 23 | |
| There is no indication of any contamination in the oil. | Potassium | ppm | ASTM D5185m | | 4 | 2 | |
| | Fuel | % | ASTM D3524 | | <1.0 | 0.8 | |
| | Water | | WC Method | >0.2 | NEG | NEG | |
| | Glycol Soot % | % | WC Method *ASTM D7844 | . 0 | NEG 0.2 | NEG 0.1 | |
| | Nitration | Abs/cm | *ASTM D7644 | | 7.6 | 8.5 | |
| | Sulfation | Abs/.1mm | *ASTM D7024 | | 17.4 | 17.8 | |
| | Silt | scalar | *Visual | NONE | NONE | NONE | |
| | Debris | scalar | *Visual | NONE | NONE | NONE | |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | |
| | Appearance | scalar | *Visual | NORML | NORML | NORML | |
| | Odor | scalar | *Visual | NORML | NORML | NORML | |
| | Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | |
| | | | | | | | |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | | <1 | 3 | |
| The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type. | Boron | ppm | ASTM D5185m | | 102 | 63 | |
| | Barium | ppm | ASTM D5185m | | 0 | 0 | |
| | Molybdenum | ppm | ASTM D5185m | | 16 | 84 | |
| | Manganese | ppm | ASTM D5185m | | <1 | 2 | |
| | Magnesium | ppm | ASTM D5185m | | 610 | 15 | |
| | Calcium | ppm | ASTM D5185m | | 1370 | 2169 | |
| | Phosphorus Zinc | ppm | ASTM D5185m ASTM D5185m | | 769 863 | 1022 1208 | |
| | Sulfur | ppm | ASTM D5185m | | 3329 | 4676 | |
| | Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 3329 12.1 | 13.8 | |
| | Oxidation | W09/.1111111 | AOTM DOSS | >20 | 7.0 | 13.0 | |

6.9

10.7

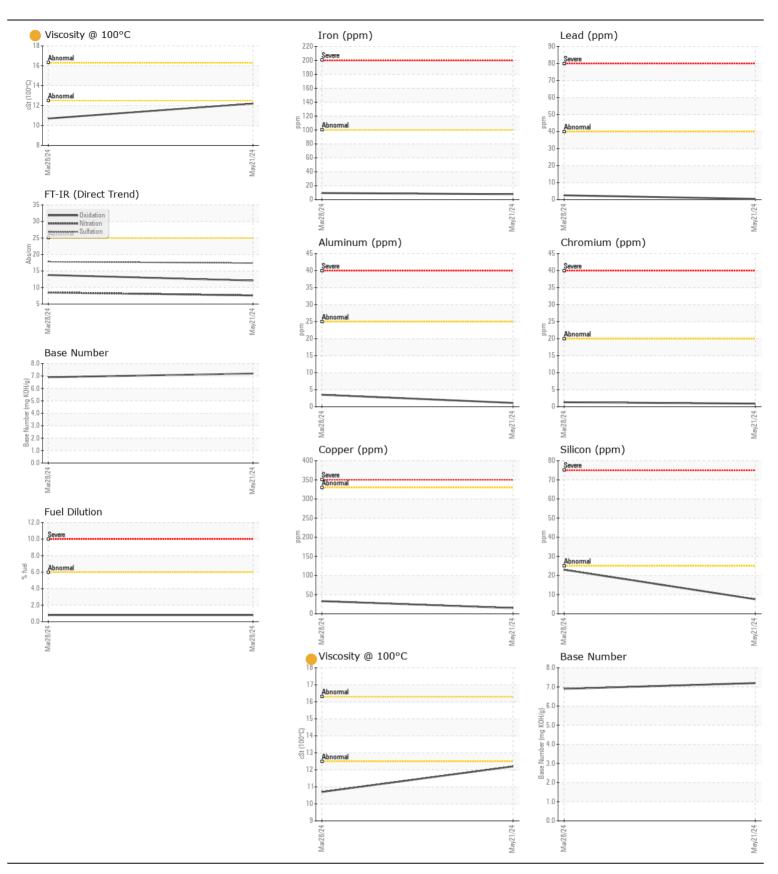
7.2

12.2

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445

Visc @ 100°C cSt





Report Id: WESPLY [WUSCAR] 06197419 (Generated: 06/05/2024 08:26:31) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DJJ0009061 Lab Number : 06197419

Received **Tested** Diagnosed

: 04 Jun 2024 - Don Baldridge Unique Number : 11059542 Test Package : MOBCE (Additional Tests: FuelDilution, TBN)

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

: 03 Jun 2024

: 04 Jun 2024

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. **WESTERN METALS RECYCLING - PLYMOUTH**

7400 WEST CEMETERY ROAD PLYMOUTH, UT

US 84330 Contact: JARDEE STEED

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