WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

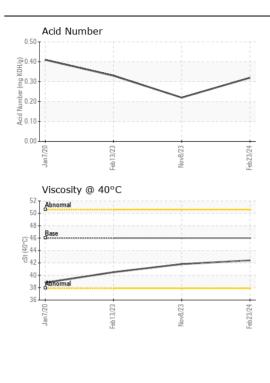
NORMAL

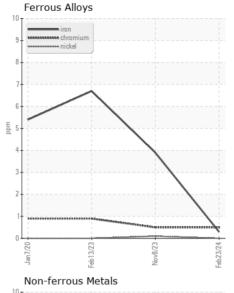
Area

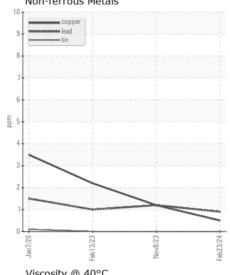
Ascendum Machinery/500 Hour CSA Machine Id VOLVO L150H 2041 (S/N 6409)

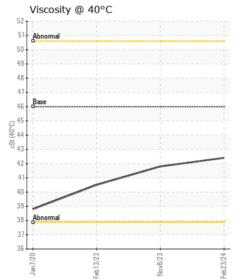


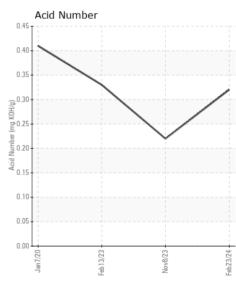
| VOLVO SUPER HYDRAULIC OI | L 46 (GA | L) | | | | | |
|--|------------------------------------|-----------------|--------------------------|---------------|-------------|-------------------|------------------|
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| TEOGRAMENDATION | Sample Number | OOW | Client Info | LITTIO / COTT | ASC0005140 | , | VCP0007235 |
| We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. | Sample Date | | Client Info | | 23 Feb 2024 | 08 Nov 2023 | 13 Feb 2023 |
| | Machine Age | hrs | Client Info | | 9577 | 9069 | 8009 |
| | Oil Age | hrs | Client Info | | 8517 | 1060 | 4024 |
| | Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| | Oil Changed | 0 | Client Info | | Not Changd | Not Changd | Changed |
| | Filter Changed | | Client Info | | Not Changd | Not Change | Changed |
| | Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| WEAR All component wear rates are normal. | Iron | ppm | ASTM D5185m | >50 | <1 | 4 | 7 |
| | Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| | Nickel | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| | Titanium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| | Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | >20 | 2 | 2 | 4 |
| | Lead | ppm | ASTM D5185m | >20 | <1 | 1 | 1 |
| | Copper | ppm | ASTM D5185m | >150 | <1 | 1 | 2 |
| | Tin | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| | 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 | | 4 | 4 | 8 |
| Moderate concentration of visible dirt/debris present in the oil. | Potassium | ppm | ASTM D5185m | | 0 | 1 | 0 |
| moderate consentuation of visible and desire process in the on. | Water | | WC Method | >0.1 | NEG | NEG | NEG |
| | Particles >4µm | | ASTM D7647 | 0500 | | 30587 | 40294 |
| | Particles >6µm | | ASTM D7647 | | | △ 9121 △ 533 | ▲ 13015 ▲ 911 |
| | Particles >14µm Particles >21µm | | ASTM D7647 ASTM D7647 | | | ▲ 138 | ▲ 145 |
| | Particles >21µm | | ASTM D7647 | | | 4 | ▲ 12 |
| | Particles >30µm | | ASTM D7647 | | | 0 | 1 |
| | Oil Cleanliness | | ISO 4406 (c) | | | <u>^</u> 22/20/16 | 23/21/17 |
| | Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Debris | scalar | *Visual | NONE | ▲ MODER | 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 | >0.1 | NEG | NEG | NEG |
| | | | | | | | |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | | 0 | 2 | 4 |
| The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. | Boron | ppm | ASTM D5185m | | 0 | 1 | 0 |
| | Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Molybdenum | ppm | ASTM D5185m | | 0 | 2 | 2 |
| | Manganese | ppm | ASTM D5185m | | <1 | 0 | 0 |
| | Magnesium | ppm | ASTM D5185m | | 47 | 53 | 42 |
| | Calcium | ppm | ASTM D5185m | | 96 | 102 | 132 |
| | Phosphorus | ppm | ASTM D5185m | | 282 | 318 | 329 |
| | Zinc | ppm | ASTM D5185m | | 372 | 378 | 387 |
| | Sulfur | ppm ma KOU/a | ASTM D5185m | 3/19 | 1285 | 1351 | 2059 |
| | Acid Number (AN) | mg KOH/g | ASTM D8045 | 16 | 0.32 | 0.22 | 0.33 |
| | Visc @ 40°C | cSt | ASTM D445 | 40 | 42.4 | 41.8 | 40.5 |













Laboratory Sample No.

Lab Number : 06101542

Test Package : CONST

: ASC0005140 Unique Number : 10899772

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

Diagnosed

: 27 Feb 2024 : 29 Feb 2024 : 29 Feb 2024 - Jonathan Hester

TRIANGLE GRADING AND PAVING INC

1521 Huffman Mill Rd BURLINGTON, NC US 27216

Contact: KAREN HILLIARD

khilliard@trianglegradingpaving.com T: (336)584-1745

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) F: (336)584-0145