

Area



[730410] Machine Id 310132 VOLVO EC380 310132 Component Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

| DECOMPTENDATION | | | | | | | |
|---|---------------------------|--------|----------------------------|-----------|--------------------------|-------------|-------------------|
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | VCP439847 | VCP383408 | VCP357329 |
| | Sample Date | le ve | Client Info | | 25 Jun 2024 | 05 Apr 2024 | 31 May 2022 |
| | Machine Age | hrs | Client Info | | 11538 | 11210 | 8553 |
| | Oil Age | hrs | Client Info Client Info | | 0 | 0 | 0 |
| | Filter Age Oil Changed | hrs | Client Info | | 0 Not Chonged | - | |
| | Filter Changed | | Client Info | | Not Changd Not Changd | Changed | Not Changd |
| | Sample Status | | Client Into | | ATTENTION | - | Changed NORMAL |
| | | | | | | ADNONIVIAL | NORWAL |
| WEAR | Iron | ppm | ASTM D5185m | >25 | 8 | 3 | 5 |
| All component wear rates are normal. | Chromium | ppm | ASTM D5185m | >10 | 2 | 0 | <1 |
| | Nickel | ppm | ASTM D5185m | | <1 | 0 | 0 |
| | Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| | Silver | ppm | ASTM D5185m | | <1 | 0 | <1 |
| | Aluminum | ppm | ASTM D5185m | >20 | 2 | 0 | 1 |
| | Lead | ppm | ASTM D5185m | >20 | <1 | 0 | <1 |
| | Copper | ppm | ASTM D5185m | >150 | 2 | 0 | 3 |
| | Tin | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| | Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | LIGHT | NONE |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | <u> </u> | 2 | <1 | 4 |
| CONTAMINATION | Potassium | ppm | ASTM D5185m | | 2 | 0 | 2 |
| The system cleanliness is acceptable for your target ISO 4406 | Water | ppin | WC Method | >0.1 | NEG | NEG | NEG |
| cleanliness code. The system and fluid cleanliness is acceptable. | Particles >4µm | | ASTM D7647 | | 17546 | | 27768 |
| | Particles >6µm | | ASTM D7647 | | 1667 | | 1827 |
| | Particles >14µm | | ASTM D7647 | | 79 | | 84 |
| | Particles >21µm | | ASTM D7647 | >640 | 23 | | 19 |
| | Particles >38µm | | ASTM D7647 | >160 | 1 | | 2 |
| | Particles >71µm | | ASTM D7647 | >40 | 0 | | 0 |
| | Oil Cleanliness | | ISO 4406 (c) | >22/20/18 | 21/18/13 | | 22/18/14 |
| | Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Debris | scalar | *Visual | NONE | NONE | A MODER | LIGHT |
| | 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 | <1 | 0 |
| | Boron | ppm | ASTM D5185m | 14 | 3 | 2 | 4 |
| The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid. | Barium | ppm | ASTM D5185m | | 1 | 0 | 0 |
| | Molybdenum | ppm | ASTM D5185m | | 2 | 1 | 2 |
| | Manganese | ppm | ASTM D5185m | | - <1 | 0 | <1 |
| | Magnesium | ppm | ASTM D5185m | | 18 | 17 | 12 |
| | Calcium | ppm | ASTM D5185m | | 308 | 239 | 1849 |
| | Phosphorus | ppm | ASTM D5185m | | 335 | 373 | 752 |
| | Zinc | ppm | ASTM D5185m | | 473 | 439 | 920 |
| | | | | | | | |

Sulfur

ppm ASTM D5185m 3719

Acid Number (AN) mg KOH/g ASTM D8045

Visc @ 40°C cSt ASTM D445 46

1083

0.47

62.8

2586

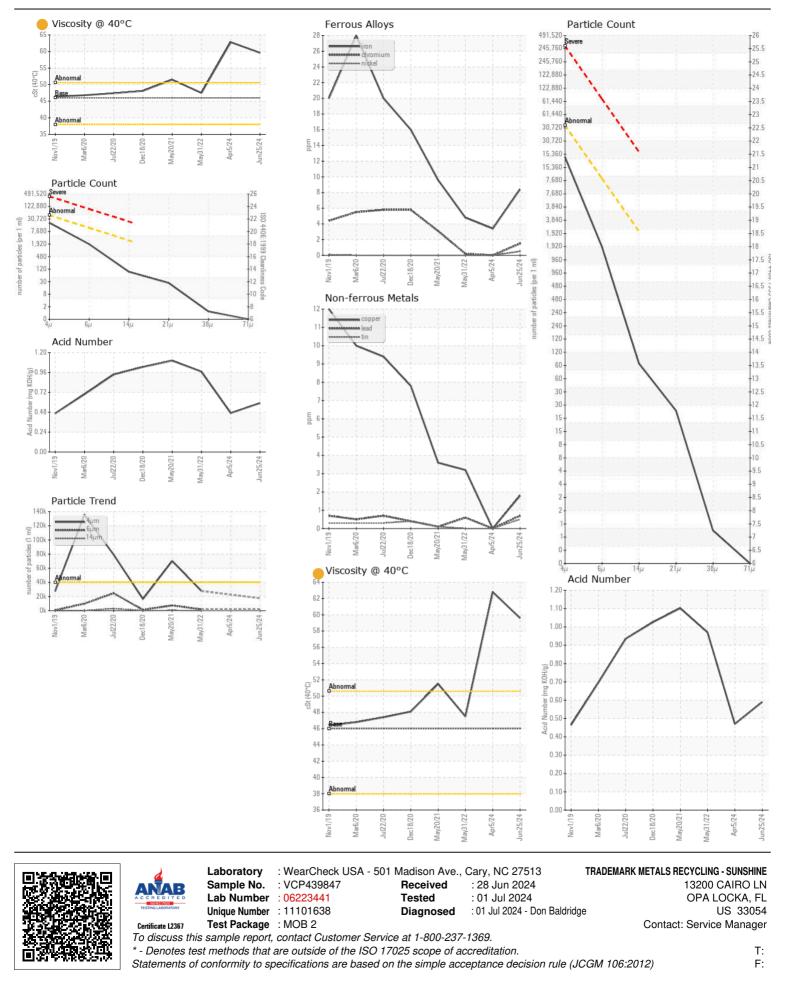
47.5

0.97

1021

0.59

59.6



Contact/Location: Service Manager - TRAOPAFL Page 2 of 2