



VOLVO A40G 352851

Front Axle

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

| RECOMMENDATION | |
|---------------------------------------|-------------|
| Resample at the next service interval | to monitor. |

WEAR

All component wear rates are normal.

CONTAMINATION

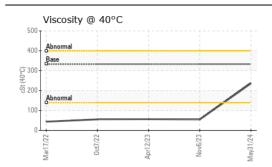
There is no indication of any contamination in the oil.

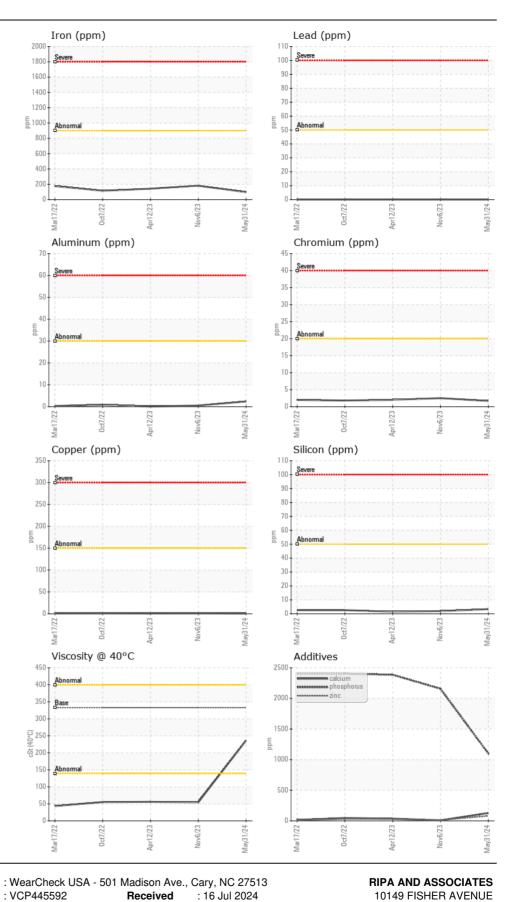
FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample Number | | Client Info | | VCP445592 | VCP429372 | VCP420262 |
| Sample Date | | Client Info | | 31 May 2024 | 06 Nov 2023 | 12 Apr 2023 |
| Machine Age | hrs | Client Info | | 5237 | 4099 | 3090 |
| Oil Age | hrs | Client Info | | 1037 | 3000 | 2090 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Changed | Not Changd |
| Filter Changed | | Client Info | | Not Changd | Changed | Not Changd |
| Sample Status | | | | NORMAL | ATTENTION | ATTENTION |
| Iron | ppm | ASTM D5185m | >900 | 97 | 181 | 142 |
| Chromium | ppm | ASTM D5185m | >20 | 2 | 2 | 2 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | 2 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >50 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >150 | <1 | 1 | <1 |
| Tin | ppm | ASTM D5185m | >20 | 0 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | | +1 // 1 | NONE | | | |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal Silicon | scalar ppm | *Visual ASTM D5185m | >50 | NONE 3 | NONE 2 | NONE 1 |
| | | | | | | |
| Silicon | ppm | ASTM D5185m | >50 | 3 | 2 | 1 |
| Silicon Potassium | ppm | ASTM D5185m ASTM D5185m | >50 >20 | 3 2 | 2 3 | 1 <1 |
| Silicon Potassium Water | ppm ppm | ASTM D5185m ASTM D5185m WC Method | >50 >20 >0.2 | 3 2 NEG | 2 3 NEG | 1 <1 NEG |
| Silicon Potassium Water Silt | ppm ppm scalar | ASTM D5185m ASTM D5185m WC Method *Visual | >50 >20 >0.2 NONE | 3 2 NEG NONE | 2 3 NEG NONE | 1 <1 NEG NONE |
| Silicon Potassium Water Silt Debris | ppm ppm scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual | >50 >20 >0.2 NONE NONE | 3 2 NEG NONE NONE | 2 3 NEG NONE NONE | 1 <1 NEG NONE NONE |
| Silicon Potassium Water Silt Debris Sand/Dirt | ppm ppm scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual | >50 >20 >0.2 NONE NONE NONE | 3 2 NEG NONE NONE NONE | 2 3 NEG NONE NONE NONE | 1 <1 NEG NONE NONE |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance | ppm ppm scalar scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual | >50 >20 >0.2 NONE NONE NONE NORML | 3 2 NEG NONE NONE NONE NORML | 2 3 NEG NONE NONE NONE NORML | 1 <1 NEG NONE NONE NONE NORML |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor | ppm ppm scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual | >50 >20 >0.2 NONE NONE NONE NORML | 3 2 NEG NONE NONE NORE NORML | 2 3 NEG NONE NONE NONE NORML NORML | 1 <1 NEG NONE NONE NONE NORML NORML |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water | ppm ppm scalar scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual | >50 >20 >0.2 NONE NONE NONE NORML | 3 2 NEG NONE NONE NORE NORML NEG | 2 3 NEG NONE NONE NONE NORML NEG | 1 <1 NEG NONE NONE NONE NORML NORML |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium | ppm ppm scalar scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m | >50 >20 >0.2 NONE NONE NORML NORML >0.2 | 3 2 NEG NONE NONE NORML NORML NEG 0 | 2 3 NEG NONE NONE NORML NORML NEG 1 | 1 <1 NEG NONE NONE NORML NORML NEG 1 |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron | ppm ppm scalar scalar scalar scalar scalar scalar gpm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m | >50 >20 >0.2 NONE NONE NORML >0.2 | 3 2 NEG NONE NONE NORML NORML NEG 0 171 | 2 3 NEG NONE NONE NORML NORML NEG 1 148 | 1 <1 NEG NONE NONE NORML NORML NEG 1 266 |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium | ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m | >50 >20 >0.2 NONE NONE NORML NORML >0.2 | 3 2 NEG NONE NONE NORML NORML NEG 0 171 0 | 2 3 NEG NONE NONE NONE NORML NORML NEG 1 48 | 1 I NONE NONE NONE NORML NORML NEG 1 266 0 |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum | ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m | >50 >20 >0.2 NONE NORME NORML >0.2 1111 0.0 | 3 2 NEG NONE NONE NORML NORML NEG 0 171 0 2 | 2 3 NEG NONE NONE NORML NORML NEG 1 148 0 1 | 1 <1 NEG NONE NONE NORML NORML NEG 1 266 0 2 |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese | ppm ppm scalar scalar scalar scalar scalar gpm ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >50 >20 >0.2 NONE NORME NORML >0.2 1111 0.0 0.9 0.0 | 3 2 NEG NONE NONE NORML NORML NEG 0 171 0 2 3 | 2 3 NEG NONE NONE NORML NORML NEG 1 148 0 1 5 | 1 <1 NEG NONE NONE NORML NORML NEG 1 266 0 2 5 |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium | ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >50 >20 >0.2 NONE NONE NORML NORML >0.2 1111 0.0 0.9 0.0 39 | 3 2 NEG NONE NONE NORML NORML NEG 0 171 0 2 3 3 13 | 2 3 NEG NONE NONE NORML NORML NEG 1 148 0 1 148 0 1 5 5 | 1 I NONE NONE NONE NORML NORML NORML NORML NORML 0 1 266 0 2 5 1 |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium | ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >50 >20 >0.2 NONE NONE NORML NORML >0.2 1111 0.0 0.9 0.0 39 93 | 3 2 NEG NONE NONE NORML NORML NEG 0 1711 0 2 3 171 0 2 3 13 | 2 3 NEG NONE NONE NORML NORML NEG 1 148 0 148 0 1 5 5 <1 10 | 1 NEG NONE NONE NONE NORML NORML NEG 1 266 0 2 5 1 1 37 |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium | ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >50 >20 >0.2 NONE NORME NORML >0.2 111 0.0 0.9 0.0 39 93 920 | 3 2 NEG NONE NONE NORML NORML NEG 0 171 0 2 3 171 0 2 3 13 127 1104 | 2 3 NEG NONE NONE NORML NORML NEG 1 148 0 1 148 0 1 5 < <1 10 2158 | 1 <1 NEG NONE NONE NORML NORML NORML NEG 1 266 0 2 5 1 37 2386 |

Contact/Location: PM Services ? - RIPTAM





Unique Number : 11127030 : 17 Jul 2024 - Wes Davis US 33619 Diagnosed Test Package : MOB 1 Contact: PM Services Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. PMServices@ripaconstruction.com * - 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)

Tested

: 17 Jul 2024

Laboratory

Sample No.

Lab Number : 06238196

Contact/Location: PM Services ? - RIPTAM Page 2 of 2

TAMPA, FL

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F: