



CONSTRUCTION EQUIPMENT

SW0218103 VOLVO A40G 341404 - FRONT AXLE



Sample No: VCP226016
Oil Type: VOLVO API GL-5 SAE 75W90
Job No: SW0218103



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP226016 | VCP188111 | VCE251961 | --- |
| Sample Date | 28 Jan 2019 | 09 Aug 2018 | 05 Jun 2017 | --- |
| Machine Hours | 4180 | 4020 | 2187 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | N/A | Changed | Not Changd | --- |
| Sample Status | NORMAL | NORMAL | NORMAL | --- |

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OIL CONDITION

| | | | | | |
|-------------|-----|--------------|-------|------|-----|
| Visc @ 40°C | cSt | 52.12 | 52.00 | 52.1 | --- |
|-------------|-----|--------------|-------|------|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|--------------|---|----|-----|
| Silicon | ppm | <1 | 1 | <1 | --- |
| Sodium | ppm | 2 | 2 | 2 | --- |
| Potassium | ppm | 0 | 2 | 0 | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|-----|
| Iron | ppm | 34 | 56 | 29 | --- |
| Copper | ppm | <1 | <1 | <1 | --- |
| Lead | ppm | <1 | 0 | 0 | --- |
| Tin | ppm | 0 | 0 | 0 | --- |
| Aluminum | ppm | 0 | 0 | <1 | --- |
| Chromium | ppm | <1 | 1 | <1 | --- |
| Molybdenum | ppm | <1 | <1 | <1 | --- |
| Nickel | ppm | 0 | <1 | <1 | --- |
| Titanium | ppm | 0 | 0 | 0 | --- |
| Silver | ppm | 0 | 0 | 0 | --- |
| Manganese | ppm | 2 | 3 | 1 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------------|------|------|-----|
| Calcium | ppm | 20 | 11 | 7 | --- |
| Magnesium | ppm | <1 | 0 | 0 | --- |
| Zinc | ppm | 10 | 6 | 4 | --- |
| Phosphorus | ppm | 2282 | 2057 | 2398 | --- |
| Barium | ppm | 0 | 0 | 0 | --- |
| Boron | ppm | 255 | 248 | 274 | --- |

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO2990
Unique No: 8477872
Signed: Jonathan Hester
Report Date: 01 Feb 2019



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GRAPHS

