



CONSTRUCTION EQUIPMENT

519285 MITCHELL VOLVO A40G 352778 - DROP BOX



Sample No: VCP436849
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 519285 MITCHELL



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP436849 | VCP441178 | --- | --- |
| Sample Date | 08 Apr 2024 | 20 Feb 2024 | --- | --- |
| Machine Hours | 4800 | 4770 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Changed | --- | --- |
| Sample Status | ABNORMAL | SEVERE | --- | --- |

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OIL CONDITION

| | | | | | |
|-------------|-----|-------|------|-----|-----|
| Visc @ 40°C | cSt | █ 178 | 44.6 | --- | --- |
|-------------|-----|-------|------|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|------|------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Silicon | ppm | █ 14 | █ 43 | --- | --- |
| Sodium | ppm | █ 3 | █ 8 | --- | --- |
| Potassium | ppm | █ 2 | █ 4 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|-------|--------|-----|-----|
| Iron | ppm | ▲ 444 | ▲ 1003 | --- | --- |
| Copper | ppm | █ 7 | █ 22 | --- | --- |
| Lead | ppm | █ <1 | █ 0 | --- | --- |
| Tin | ppm | █ <1 | █ <1 | --- | --- |
| Aluminum | ppm | █ 3 | █ <1 | --- | --- |
| Chromium | ppm | █ 7 | █ 8 | --- | --- |
| Molybdenum | ppm | █ 15 | █ 9 | --- | --- |
| Nickel | ppm | █ 2 | █ 2 | --- | --- |
| Titanium | ppm | <1 | 0 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | █ 8 | █ 19 | --- | --- |
| Vanadium | ppm | <1 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------|-------|-----|-----|
| Calcium | ppm | █ 156 | █ 68 | --- | --- |
| Magnesium | ppm | █ 49 | █ 5 | --- | --- |
| Zinc | ppm | █ 126 | █ 108 | --- | --- |
| Phosphorus | ppm | 1231 | 2039 | --- | --- |
| Barium | ppm | █ 1 | █ 0 | --- | --- |
| Boron | ppm | █ 166 | █ 71 | --- | --- |

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0090
Unique No: 10979134
Signed: Sean Felton
Report Date: 17 Apr 2024



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GRAPHS

