



CONSTRUCTION EQUIPMENT

X43639 VOLVO A40F 11840 - REAR AXLE



Sample No: VCP418781
Oil Type: GEAR OIL SAE 80W90
Job No: X43639



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP418781 | --- | --- | --- |
| Sample Date | 23 May 2023 | --- | --- | --- |
| Machine Hours | 21392 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Not Chngd | --- | --- | --- |
| Sample Status | ABNORMAL | --- | --- | --- |

ROGERS GROUP, INC
 421 GREAT CIRCLE ROAD
 NASHVILLE, TN
 US 37228
 Contact: SERVICE MANAGER



OIL CONDITION

| | | | | | |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 110 | --- | --- | --- |
|-------------|-----|-----|-----|-----|-----|

T: (615)780-5730
 F:



CONTAMINATION

| | | | | | |
|-----------|-----|---------|-----|-----|-----|
| Water | % | ▲ 0.329 | --- | --- | --- |
| Silicon | ppm | ■ 93 | --- | --- | --- |
| Sodium | ppm | ■ 1 | --- | --- | --- |
| Potassium | ppm | ■ 16 | --- | --- | --- |

Diagnosis
 No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | ▲ 614 | --- | --- | --- |
| Copper | ppm | ■ 6 | --- | --- | --- |
| Lead | ppm | ■ 0 | --- | --- | --- |
| Tin | ppm | ■ 0 | --- | --- | --- |
| Aluminum | ppm | ▲ 28 | --- | --- | --- |
| Chromium | ppm | ■ 4 | --- | --- | --- |
| Molybdenum | ppm | ■ 11 | --- | --- | --- |
| Nickel | ppm | ■ 3 | --- | --- | --- |
| Titanium | ppm | 3 | --- | --- | --- |
| Silver | ppm | 0 | --- | --- | --- |
| Manganese | ppm | ■ 15 | --- | --- | --- |
| Vanadium | ppm | <1 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ■ 2959 | --- | --- | --- |
| Magnesium | ppm | ■ 94 | --- | --- | --- |
| Zinc | ppm | ■ 789 | --- | --- | --- |
| Phosphorus | ppm | ■ 1387 | --- | --- | --- |
| Barium | ppm | ■ 3 | --- | --- | --- |
| Boron | ppm | ■ 162 | --- | --- | --- |

Depot: ROGNAS
Unique No: 10486211
Signed: Jonathan Hester
Report Date: 30 May 2023

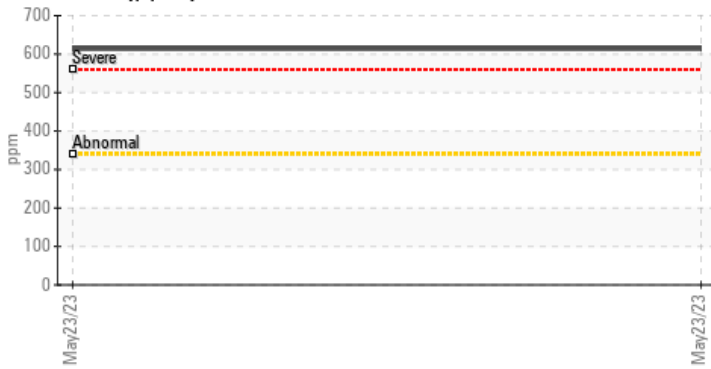


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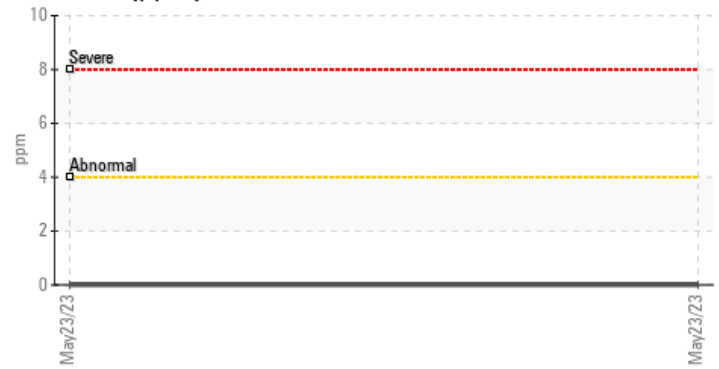


GRAPHS

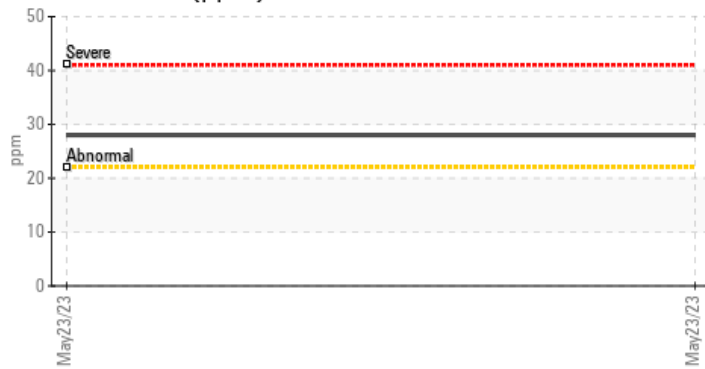
▲ Iron (ppm)



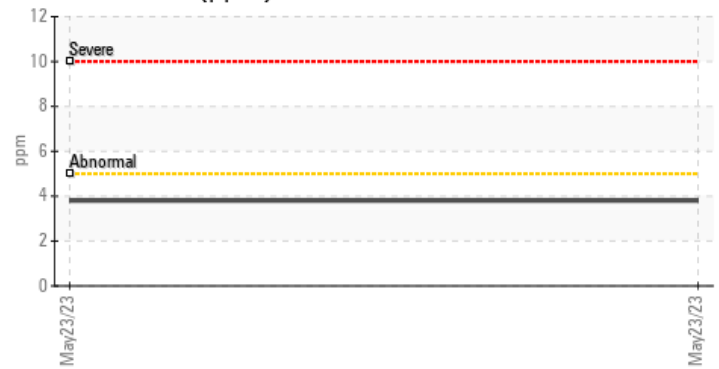
Lead (ppm)



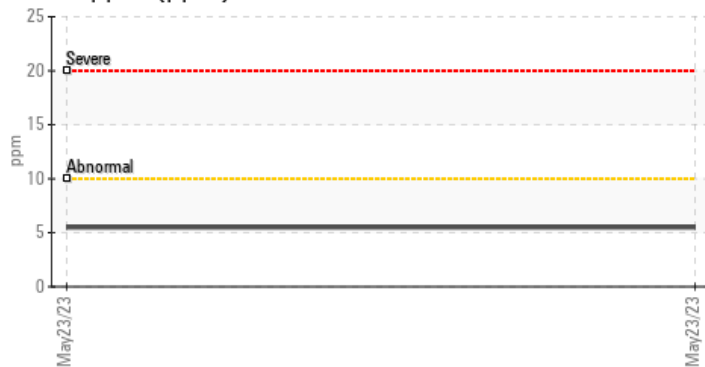
▲ Aluminum (ppm)



Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



▲ Water

