



CONSTRUCTION EQUIPMENT

331624 CITY OF TAMPA VOLVO L180H 5423 - TRANSMISSION (AUTO)



Sample No: VCP417396
Oil Type: VOLVO AUTOMATIC TRANSMISSION FLUID AT102
Job No: 331624 CITY OF TAMPA



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
 JFARDELLA@ALTAEQUIPFL.COM
 T: (813)630-0077
 F: (813)630-2233



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP417396 | VCP378039 | VCP374619 | VCP330235 |
| Sample Date | 15 Aug 2023 | 11 Aug 2022 | 14 Jun 2022 | 05 Apr 2022 |
| Machine Hours | 8689 | 5393 | 4907 | 4314 |
| Oil Hours | 4000 | 500 | 1500 | 4314 |
| Oil Changed | Changed | Not Changd | Not Changd | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |



OIL CONDITION

| | | | | | |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | 41.8 | 28.1 | 28.2 | 26.2 |
|-------------|-----|-------------|------|------|------|



CONTAMINATION

| | | | | | |
|-----------|-----|----------|---|---|---|
| Silicon | ppm | 4 | 3 | 3 | 6 |
| Sodium | ppm | 3 | 3 | 1 | 4 |
| Potassium | ppm | 2 | 0 | 0 | 0 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 38 | 21 | 19 | 48 |
| Copper | ppm | 8 | 3 | 2 | 7 |
| Lead | ppm | 0 | 0 | 0 | 0 |
| Tin | ppm | 0 | 0 | <1 | <1 |
| Aluminum | ppm | <1 | <1 | 2 | 1 |
| Chromium | ppm | <1 | 0 | 0 | <1 |
| Molybdenum | ppm | 0 | <1 | <1 | <1 |
| Nickel | ppm | 0 | 0 | <1 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 2 | 1 | 1 | 4 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 83 | 81 | 73 | 100 |
| Magnesium | ppm | 2 | 0 | 0 | <1 |
| Zinc | ppm | 19 | 9 | 6 | 19 |
| Phosphorus | ppm | 197 | 193 | 176 | 152 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 66 | 95 | 89 | 60 |

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: VOLVO0093
Unique No: 10642094
Signed: Don Baldrige
Report Date: 12 Sep 2023

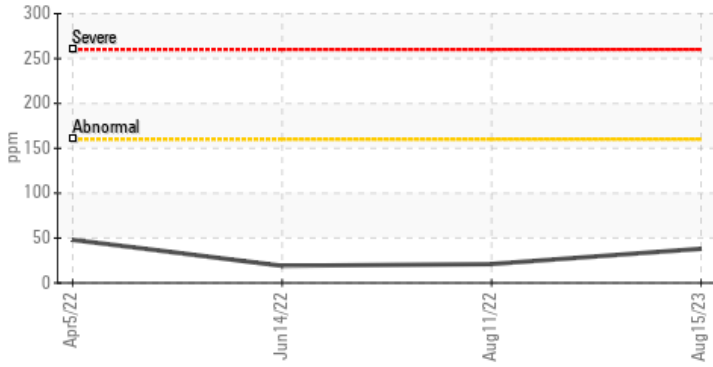


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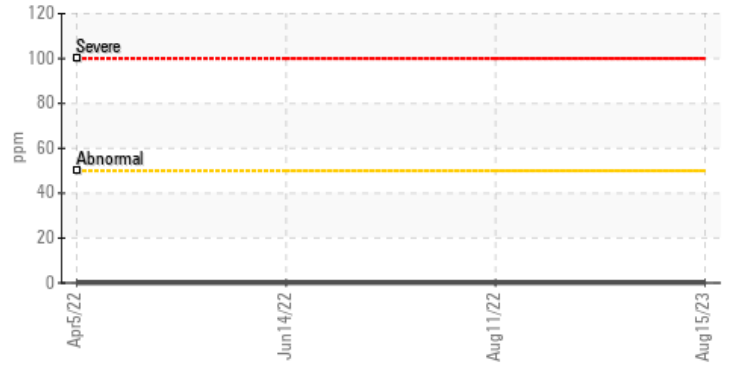


GRAPHS

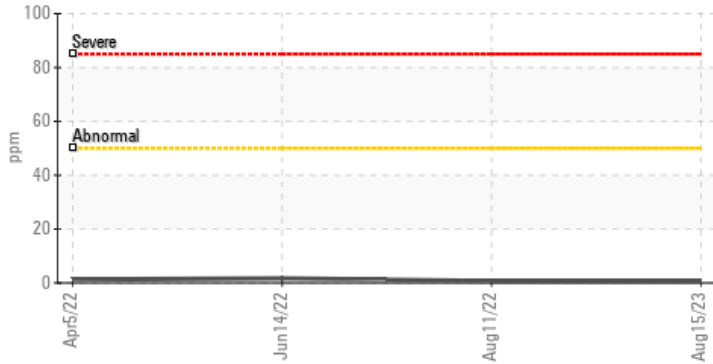
Iron (ppm)



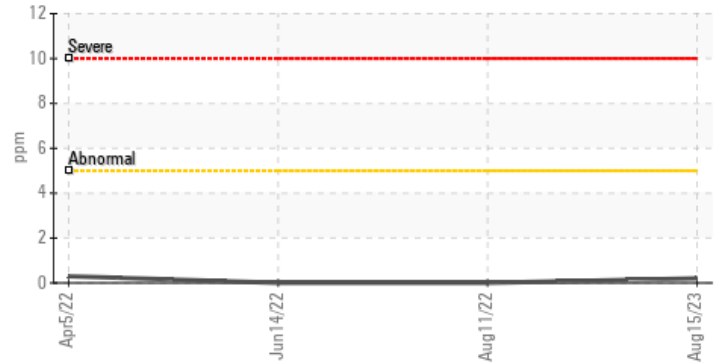
Lead (ppm)



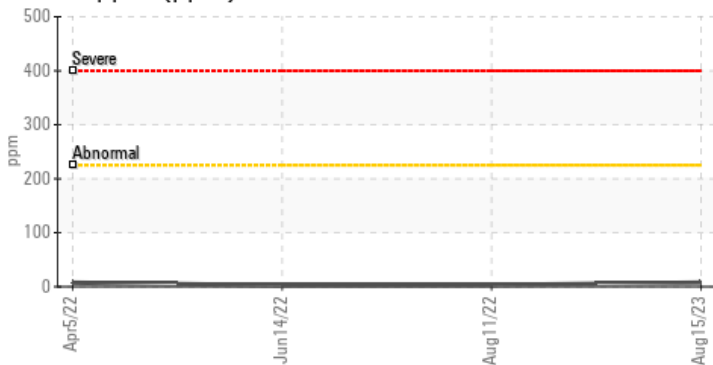
Aluminum (ppm)



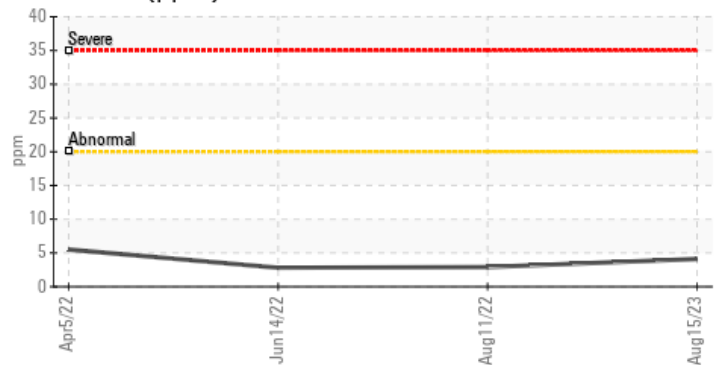
Chromium (ppm)



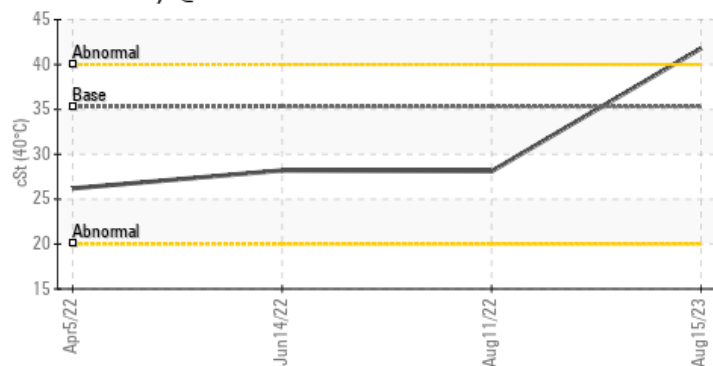
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

