



CONSTRUCTION EQUIPMENT

216445 VOLVO L220H 3193 - TRANSMISSION (AUTO)



Sample No: VCP342784
Oil Type: VOLVO AT 102
Job No: 216445



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP342784 | VCP299175 | VCP269172 | VCP267649 |
| Sample Date | 20 Jan 2022 | 22 Jul 2021 | 14 Jul 2020 | 22 May 2020 |
| Machine Hours | 6018 | 4950 | 2646 | 2289 |
| Oil Hours | 0 | 4950 | 2646 | 2289 |
| Oil Changed | Not Changd | Changed | Not Changd | Not Changd |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

CALLANAN
 RT 32 677 FLATBUSH RD
 EAST KINGSTON, NY
 US 12401
 Contact:



OIL CONDITION

| | | | | | |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | 28.7 | 25.8 | 26.0 | 26.2 |
|-------------|-----|-------------|------|------|------|

T:
F:



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|--------------|-----|-----|-----|
| Silicon | ppm | 4 | 7 | 8 | 8 |
| Sodium | ppm | <1 | 5 | 4 | 4 |
| Potassium | ppm | 0 | <1 | 2 | <1 |

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.



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|----|----|
| Iron | ppm | 49 | 132 | 84 | 75 |
| Copper | ppm | 4 | 10 | 8 | 8 |
| Lead | ppm | 0 | <1 | 2 | <1 |
| Tin | ppm | 0 | <1 | 0 | 0 |
| Aluminum | ppm | <1 | 3 | 2 | 2 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | <1 | <1 | 0 | <1 |
| Nickel | ppm | <1 | <1 | 0 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 2 | 6 | 5 | 5 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Calcium | ppm | 90 | 103 | 100 | 98 |
| Magnesium | ppm | 3 | 3 | <1 | <1 |
| Zinc | ppm | 18 | 18 | 17 | 16 |
| Phosphorus | ppm | 176 | 146 | 144 | 150 |
| Barium | ppm | <1 | 0 | 4 | 4 |
| Boron | ppm | 63 | 80 | 58 | 60 |

Depot: CALEAS
Unique No: 9825999
Signed: Don Baldrige
Report Date: 26 Jan 2022

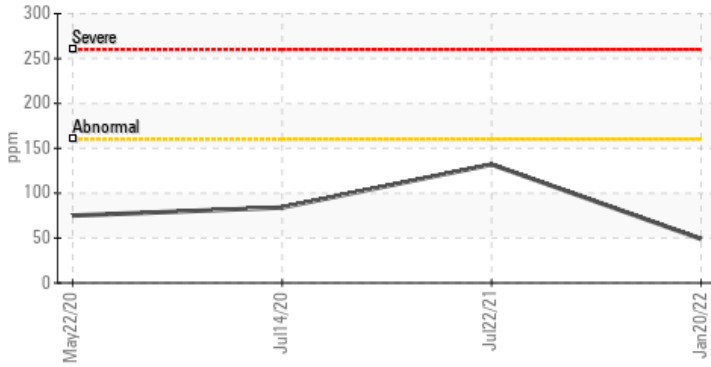


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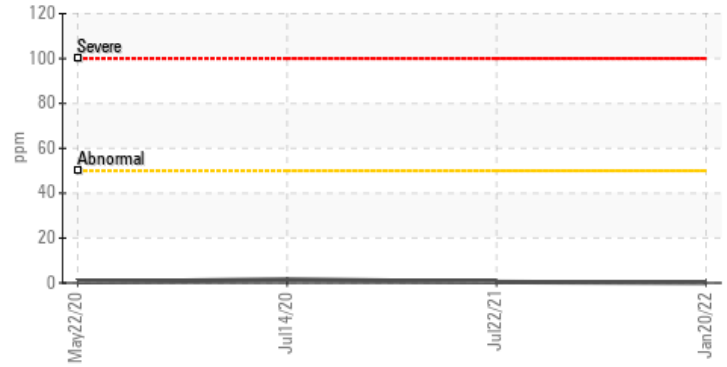


GRAPHS

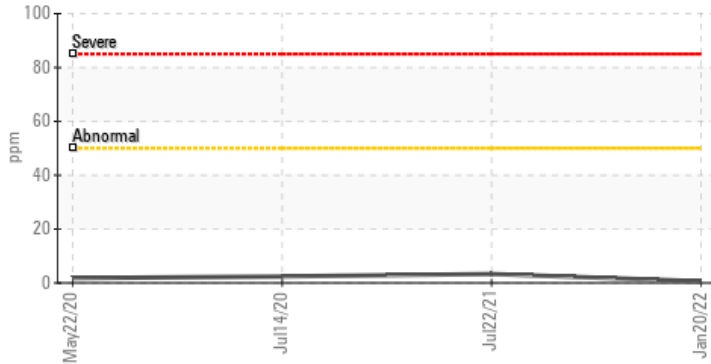
Iron (ppm)



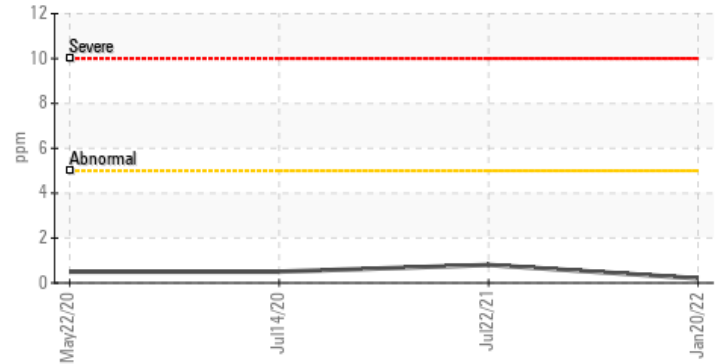
Lead (ppm)



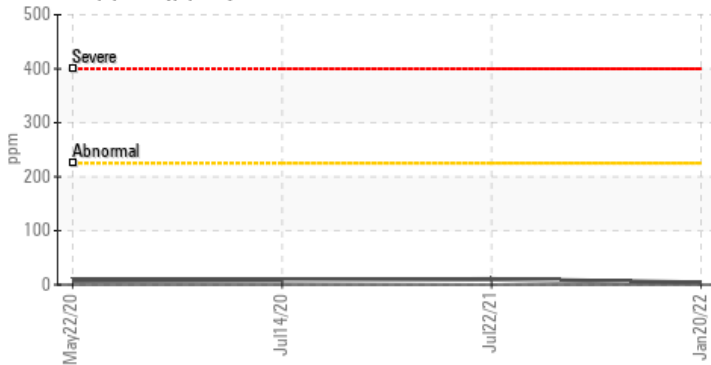
Aluminum (ppm)



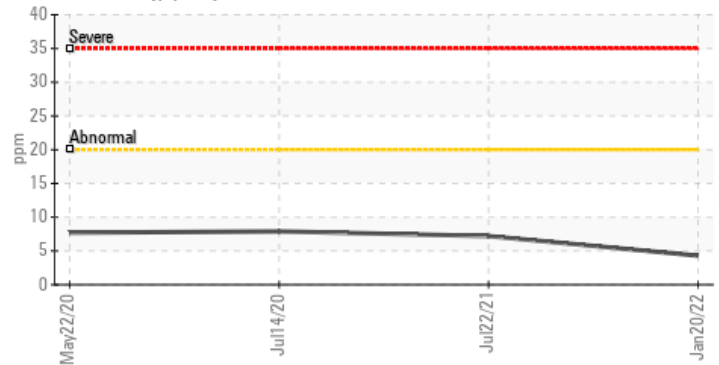
Chromium (ppm)



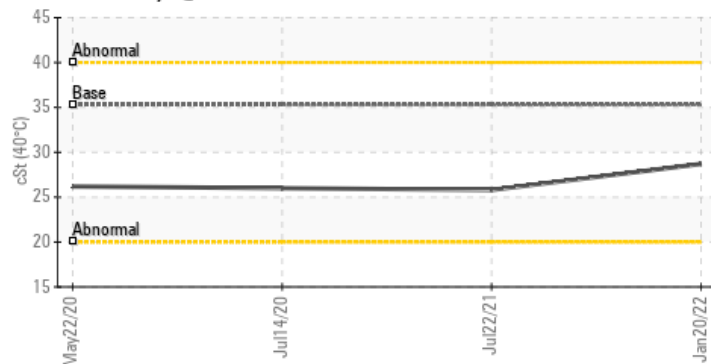
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

