# CONSTRUCTION EQUIPMENT

## 40864 TURNER MINING VOLVO A45G 353402 - DROP BOX

**Sample No:** VCP306696
**Oil Type:** VOLVO
**Job No:** 40864 TURNER MINING


**215 - ASCENDUM MACHINERY INC - CAYCE**
2303 AIRPORT BLVD
CAYCE, SC
US 29033
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## SAMPLE INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| Sample Number | | **VCP306696** | --- | --- | --- |
| Sample Date | | **15 Dec 2023** | --- | --- | --- |
| Machine Hours | | **2700** | --- | --- | --- |
| Oil Hours | | **0** | --- | --- | --- |
| Oil Changed | | **Changed** | --- | --- | --- |
| Sample Status | | **ABNORMAL** | --- | --- | --- |

## OIL CONDITION

| | | | | | |
|---|---|---|---|---|---|
| Visc @ 40°C | cSt | **51.4** | --- | --- | --- |

## CONTAMINATION

| | | | | | |
|---|---|---|---|---|---|
| Water | % | **NEG** | --- | --- | --- |
| Silicon | ppm | **38** | --- | --- | --- |
| Sodium | ppm | **3** | --- | --- | --- |
| Potassium | ppm | **6** | --- | --- | --- |

## WEAR METALS

| | | | | | |
|---|---|---|---|---|---|
| Iron | ppm | **760** | --- | --- | --- |
| Copper | ppm | **88** | --- | --- | --- |
| Lead | ppm | **1** | --- | --- | --- |
| Tin | ppm | **0** | --- | --- | --- |
| Aluminum | ppm | **12** | --- | --- | --- |
| Chromium | ppm | **9** | --- | --- | --- |
| Molybdenum | ppm | **20** | --- | --- | --- |
| Nickel | ppm | **3** | --- | --- | --- |
| Titanium | ppm | **<1** | --- | --- | --- |
| Silver | ppm | **0** | --- | --- | --- |
| Manganese | ppm | **11** | --- | --- | --- |
| Vanadium | ppm | **<1** | --- | --- | --- |

## ADDITIVES

| | | | | | |
|---|---|---|---|---|---|
| Calcium | ppm | **116** | --- | --- | --- |
| Magnesium | ppm | **0** | --- | --- | --- |
| Zinc | ppm | **239** | --- | --- | --- |
| Phosphorus | ppm | **2138** | --- | --- | --- |
| Barium | ppm | **0** | --- | --- | --- |
| Boron | ppm | **91** | --- | --- | --- |

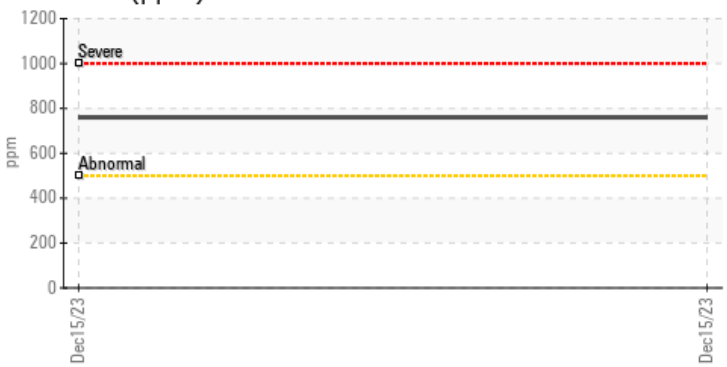
## Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.Bearing and/or 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.

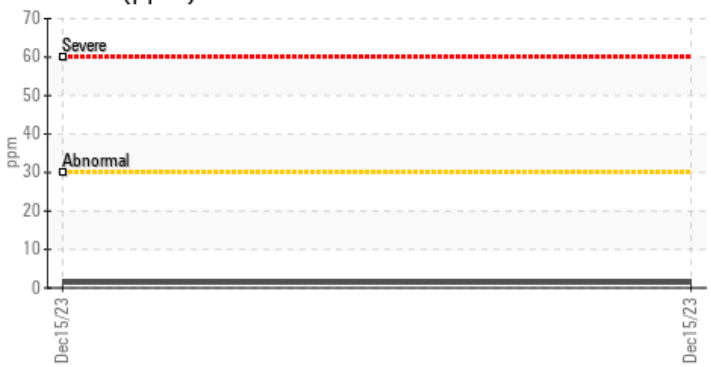
**Depot:** VOLVO0013
**Unique No:** 10796056
**Signed:** Jonathan Hester
**Report Date:** 22 Dec 2023

## GRAPHS

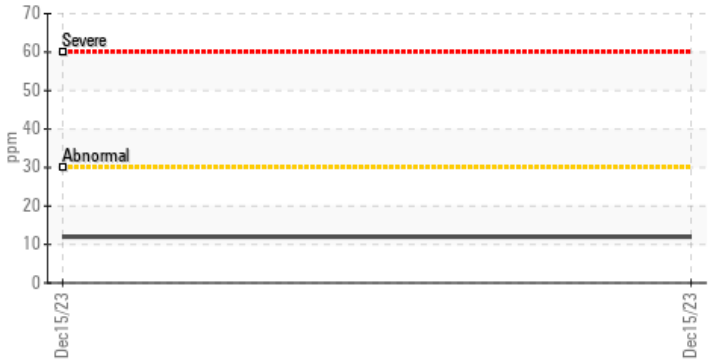
### Iron (ppm)



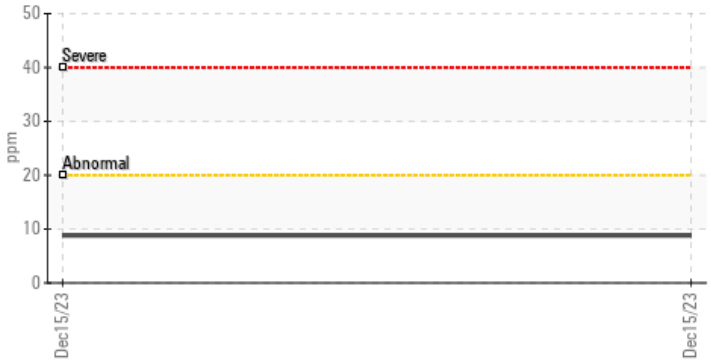

### Lead (ppm)



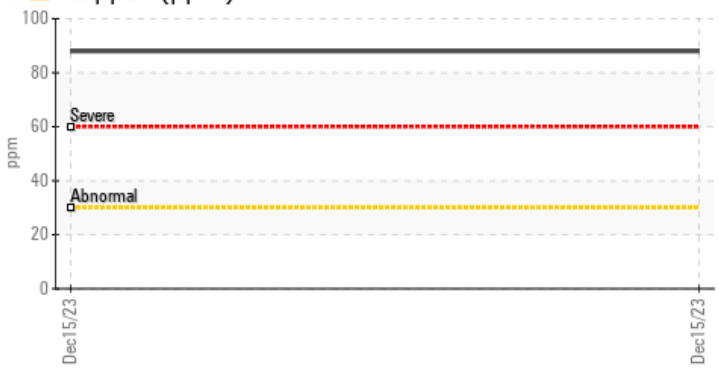

### Aluminum (ppm)



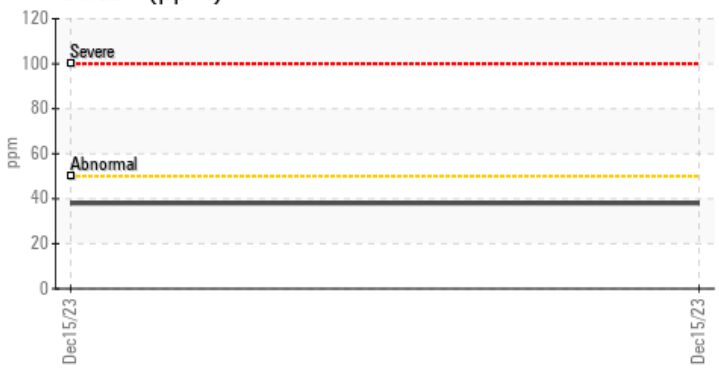

### Chromium (ppm)




### Copper (ppm)




### Silicon (ppm)




### Viscosity @ 40°C


### Additives