# CONSTRUCTION EQUIPMENT

## X11025 VEOLIA VOLVO EC220EL 311113 - HYDRAULIC SYSTEM

**Sample No:** VCP449107
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46
**Job No:** X11025 VEOLIA


**SCOTT EQUIPMENT COMPANY LLC - Texarkana**
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### SAMPLE INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| Sample Number | | **VCP449107** | --- | --- | --- |
| Sample Date | | **04 Jan 2024** | --- | --- | --- |
| Machine Hours | | **7915** | --- | --- | --- |
| Oil Hours | | **7915** | --- | --- | --- |
| Oil Changed | | **Changed** | --- | --- | --- |
| Sample Status | | **ABNORMAL** | --- | --- | --- |

### OIL CONDITION

| | | | | | |
|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ▲ **60.1** | --- | --- | --- |
| Acid Number (AN) | mg KOH/g | **0.99** | --- | --- | --- |

### CONTAMINATION

| | | | | | |
|---|---|---|---|---|---|
| Water | % | **NEG** | --- | --- | --- |
| Particles >4µm | | ▲ **98756** | --- | --- | --- |
| Particles >6µm | | **8286** | --- | --- | --- |
| Particles >14µm | | **37** | --- | --- | --- |
| ISO 4406:1999 (c) | | **24/20/12** | --- | --- | --- |
| Silicon | ppm | **10** | --- | --- | --- |
| Sodium | ppm | **0** | --- | --- | --- |
| Potassium | ppm | **3** | --- | --- | --- |

### WEAR METALS

| | | | | | |
|---|---|---|---|---|---|
| Iron | ppm | **17** | --- | --- | --- |
| Copper | ppm | **13** | --- | --- | --- |
| Lead | ppm | **<1** | --- | --- | --- |
| Tin | ppm | **<1** | --- | --- | --- |
| Aluminum | ppm | **2** | --- | --- | --- |
| Chromium | ppm | **<1** | --- | --- | --- |
| Molybdenum | ppm | **1** | --- | --- | --- |
| Nickel | ppm | **0** | --- | --- | --- |
| Titanium | ppm | **<1** | --- | --- | --- |
| Silver | ppm | **0** | --- | --- | --- |
| Manganese | ppm | **<1** | --- | --- | --- |
| Vanadium | ppm | **0** | --- | --- | --- |

### ADDITIVES

| | | | | | |
|---|---|---|---|---|---|
| Calcium | ppm | **2556** | --- | --- | --- |
| Magnesium | ppm | **16** | --- | --- | --- |
| Zinc | ppm | **1082** | --- | --- | --- |
| Phosphorus | ppm | **942** | --- | --- | --- |
| Barium | ppm | **0** | --- | --- | --- |
| Boron | ppm | **56** | --- | --- | --- |

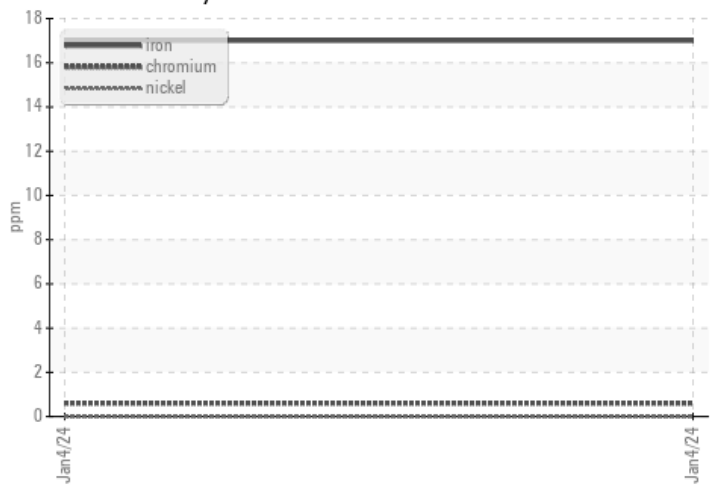
## Diagnosis

No corrective action is recommended at this time. The oil 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 a high amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

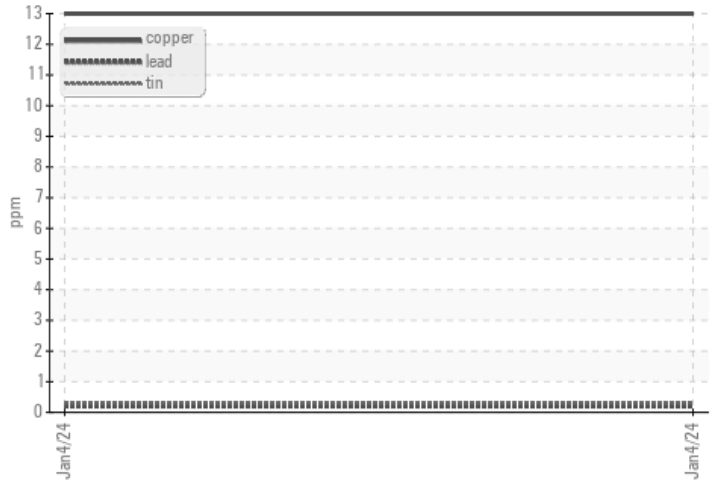
**Depot:** VOLVO1034
**Unique No:** 10829401
**Signed:** Don Baldridge
**Report Date:** 12 Jan 2024

## GRAPHS

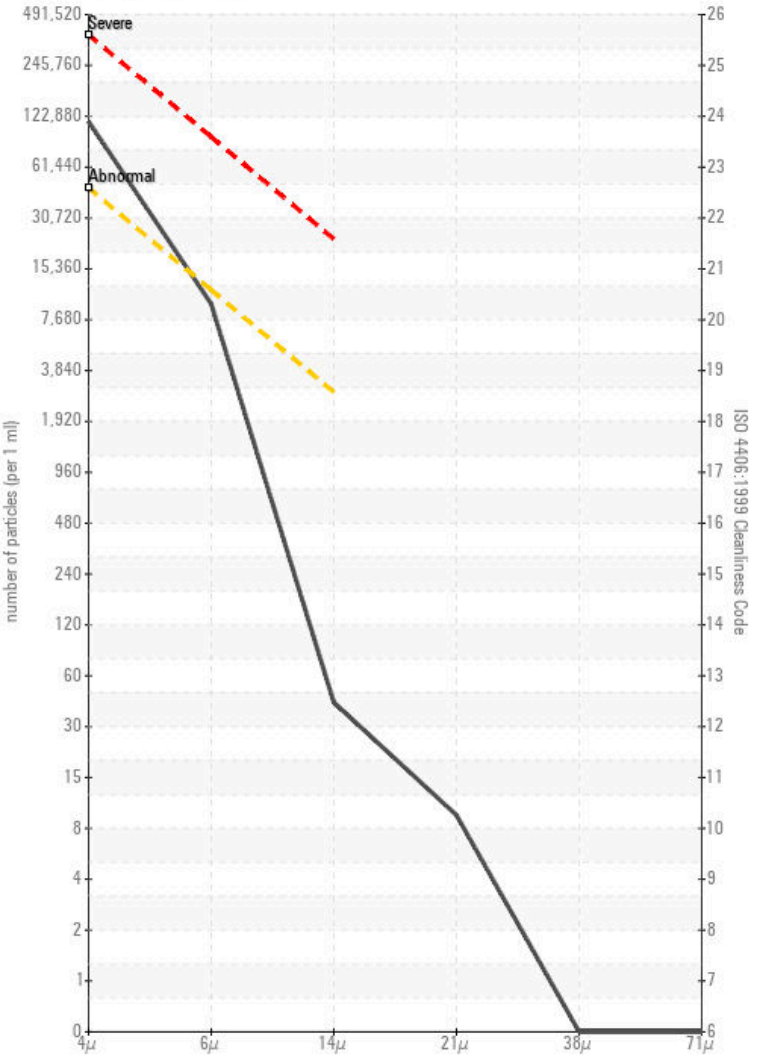
### Ferrous Alloys



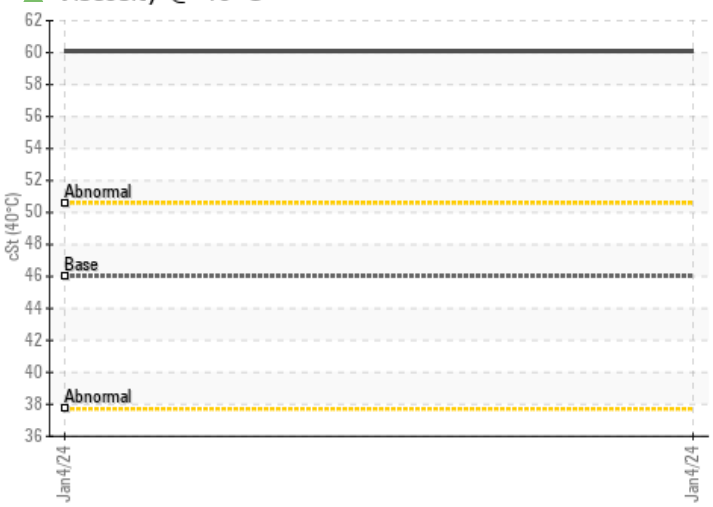

### Non-ferrous Metals




### Particle Count




### Viscosity @ 40°C




### Acid Number