# CONSTRUCTION EQUIPMENT
## VOLVO A45GFS 352516 - HYDRAULIC SYSTEM

**Sample No:** VCP409134
**Oil Type:** NOT GIVEN
**Job No:**

**DUNN CONSTRUCTION INC**
318 N 14TH ST
BELLEVUE, IA
US 52031
Contact: STEVE DUNN
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T:
F:


### SAMPLE INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| Sample Number | | **VCP409134** | VCP373582 | --- | --- |
| Sample Date | | **18 Sep 2023** | 22 Mar 2023 | --- | --- |
| Machine Hours | | **4264** | 3222 | --- | --- |
| Oil Hours | | **0** | 0 | --- | --- |
| Oil Changed | | **Not Changd** | Not Changd | --- | --- |
| Sample Status | | **ATTENTION** | NORMAL | --- | --- |

### OIL CONDITION

| | | | | | |
|---|---|---|---|---|---|
| Visc @ 40°C | cSt | **43.1** | 43.1 | --- | --- |
| Acid Number (AN) | mg KOH/g | **0.597** | 0.32 | --- | --- |

### CONTAMINATION

| | | | | | |
|---|---|---|---|---|---|
| Particles >4µm | | **38960** | 16611 | --- | --- |
| Particles >6µm | | **4376** | 1658 | --- | --- |
| Particles >14µm | | ▲ **168** | 61 | --- | --- |
| ISO 4406:1999 (c) | | **22/19/15** | 21/18/13 | --- | --- |
| Silicon | ppm | **9** | 7 | --- | --- |
| Sodium | ppm | **<1** | <1 | --- | --- |
| Potassium | ppm | **1** | 0 | --- | --- |

### WEAR METALS

| | | | | | |
|---|---|---|---|---|---|
| Iron | ppm | **23** | 16 | --- | --- |
| Copper | ppm | **7** | 7 | --- | --- |
| Lead | ppm | **2** | <1 | --- | --- |
| Tin | ppm | **<1** | 0 | --- | --- |
| Aluminum | ppm | **3** | 1 | --- | --- |
| Chromium | ppm | **2** | 2 | --- | --- |
| Molybdenum | ppm | **0** | 0 | --- | --- |
| Nickel | ppm | **0** | 0 | --- | --- |
| Titanium | ppm | **0** | 0 | --- | --- |
| Silver | ppm | **0** | 0 | --- | --- |
| Manganese | ppm | **<1** | <1 | --- | --- |
| Vanadium | ppm | **0** | 0 | --- | --- |

### ADDITIVES

| | | | | | |
|---|---|---|---|---|---|
| Calcium | ppm | **68** | 80 | --- | --- |
| Magnesium | ppm | **2** | 11 | --- | --- |
| Zinc | ppm | **470** | 414 | --- | --- |
| Phosphorus | ppm | **328** | 332 | --- | --- |
| Barium | ppm | **0** | 0 | --- | --- |
| Boron | ppm | **0** | 0 | --- | --- |

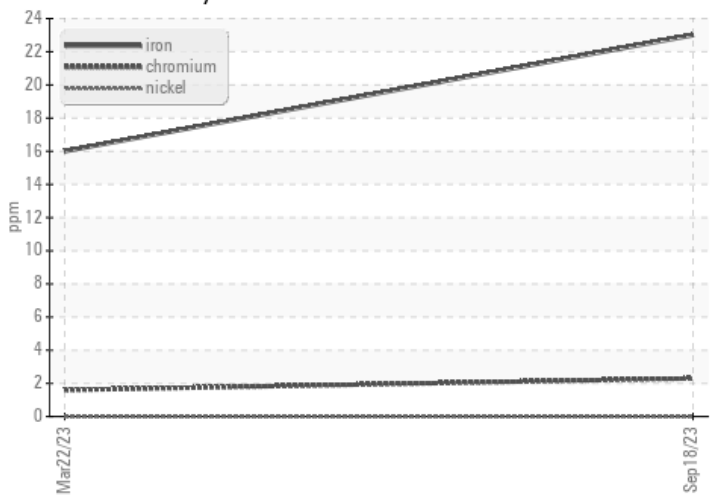
## Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 10W AW Hydraulic Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

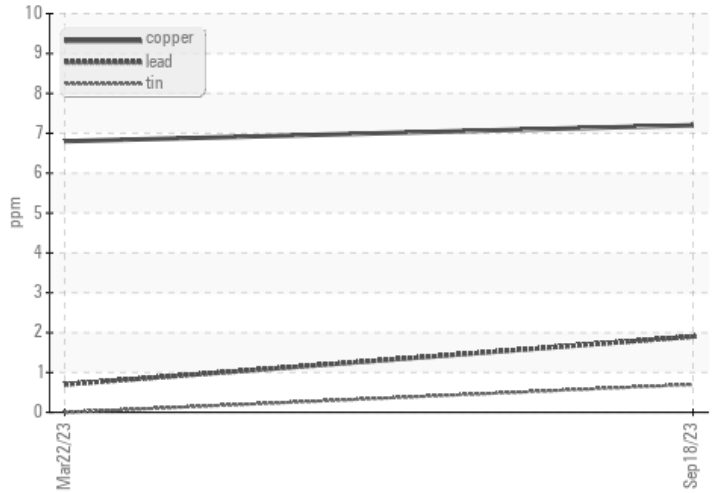
**Depot:** DUNBEL
**Unique No:** 10701989
**Signed:** Wes Davis
**Report Date:** 23 Oct 2023

## GRAPHS

### Ferrous Alloys

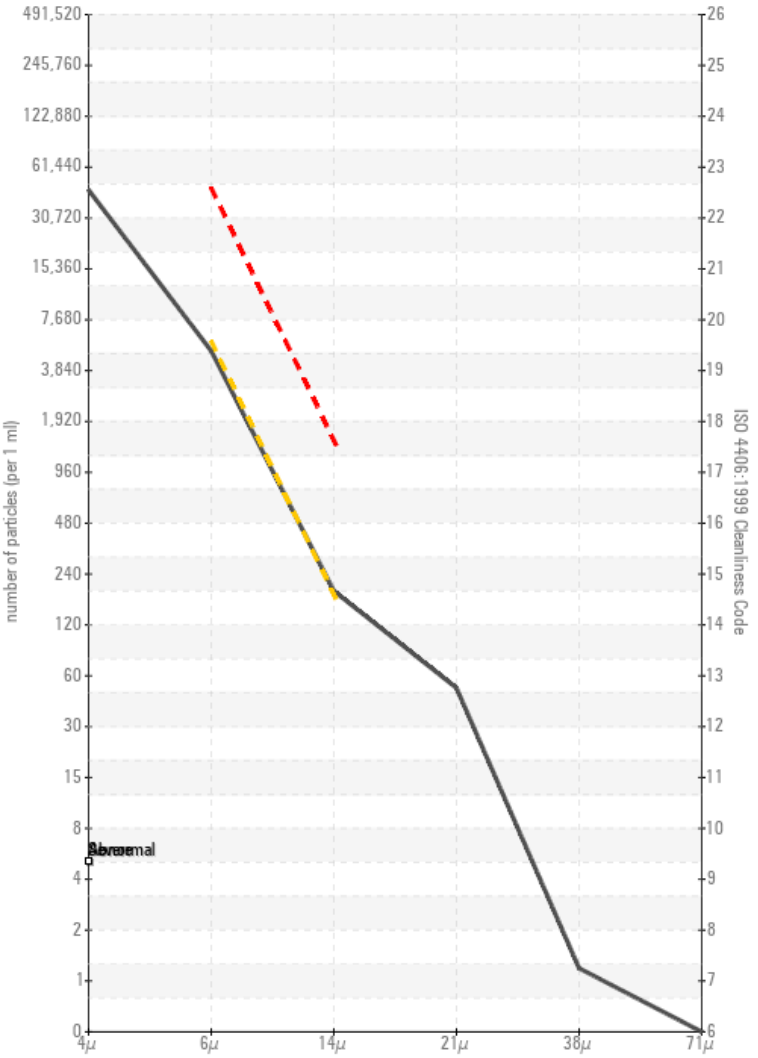


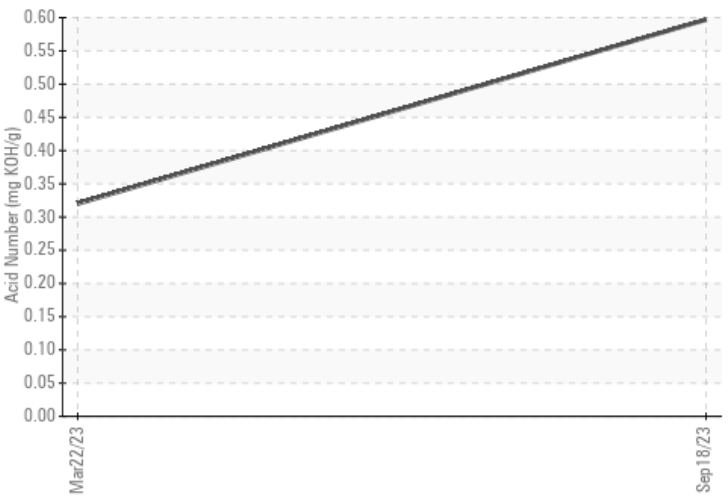

### Non-ferrous Metals




### Viscosity @ 40°C

### Particle Count




### Acid Number