# CONSTRUCTION EQUIPMENT

## 19547 MM ONSLOW VOLVO A45G 353446 - HYDRAULIC SYSTEM

**Sample No:** VCP435457
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46
**Job No:** 19547 MM ONSLOW


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### SAMPLE INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| Sample Number | | **VCP435457** | VCP415651 | --- | --- |
| Sample Date | | **01 Sep 2023** | 02 Jun 2023 | --- | --- |
| Machine Hours | | **1001** | 507 | --- | --- |
| Oil Hours | | **1001** | 0 | --- | --- |
| Oil Changed | | **Not Changd** | Not Changd | --- | --- |
| Sample Status | | **NORMAL** | NORMAL | --- | --- |

### OIL CONDITION

| | | | | | |
|---|---|---|---|---|---|
| Visc @ 40°C | cSt | **42.9** | 43.1 | --- | --- |
| Acid Number (AN) | mg KOH/g | **0.34** | 0.42 | --- | --- |

### CONTAMINATION

| | | | | | |
|---|---|---|---|---|---|
| Particles >4µm | | **10443** | 4265 | --- | --- |
| Particles >6µm | | **1726** | 872 | --- | --- |
| Particles >14µm | | **36** | 62 | --- | --- |
| ISO 4406:1999 (c) | | **21/18/12** | 19/17/13 | --- | --- |
| Silicon | ppm | **6** | 7 | --- | --- |
| Sodium | ppm | **1** | <1 | --- | --- |
| Potassium | ppm | **<1** | <1 | --- | --- |

### WEAR METALS

| | | | | | |
|---|---|---|---|---|---|
| Iron | ppm | **5** | 4 | --- | --- |
| Copper | ppm | **<1** | 1 | --- | --- |
| Lead | ppm | **0** | <1 | --- | --- |
| Tin | ppm | **0** | 0 | --- | --- |
| Aluminum | ppm | **0** | 0 | --- | --- |
| Chromium | ppm | **0** | <1 | --- | --- |
| Molybdenum | ppm | **0** | 0 | --- | --- |
| Nickel | ppm | **0** | <1 | --- | --- |
| Titanium | ppm | **0** | 0 | --- | --- |
| Silver | ppm | **0** | 0 | --- | --- |
| Manganese | ppm | **<1** | 0 | --- | --- |
| Vanadium | ppm | **0** | 0 | --- | --- |

### ADDITIVES

| | | | | | |
|---|---|---|---|---|---|
| Calcium | ppm | **63** | 72 | --- | --- |
| Magnesium | ppm | **0** | <1 | --- | --- |
| Zinc | ppm | **441** | 539 | --- | --- |
| Phosphorus | ppm | **339** | 397 | --- | --- |
| Barium | ppm | **0** | 0 | --- | --- |
| Boron | ppm | **0** | 0 | --- | --- |

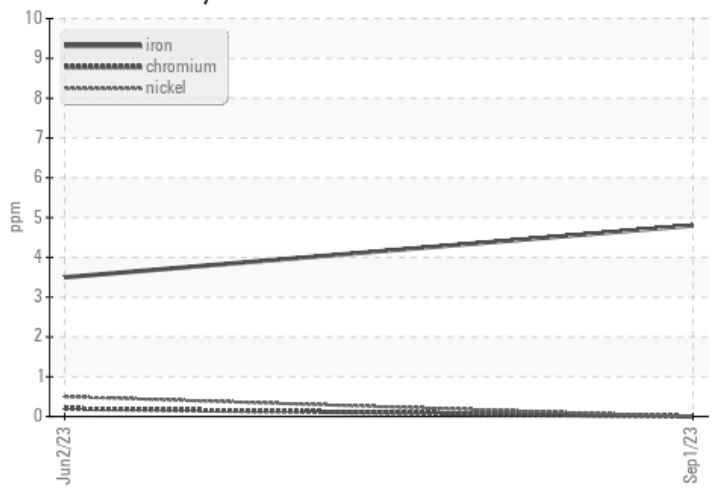
## Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

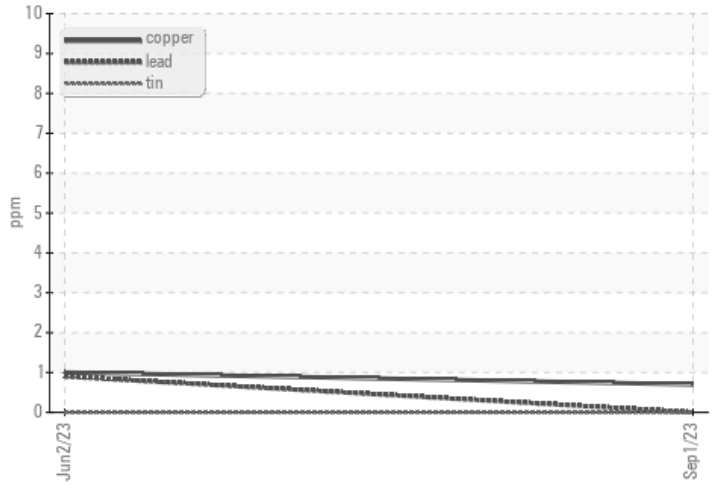
**Depot:** VOLVO8769
**Unique No:** 10643926
**Signed:** Wes Davis
**Report Date:** 13 Sep 2023

## GRAPHS

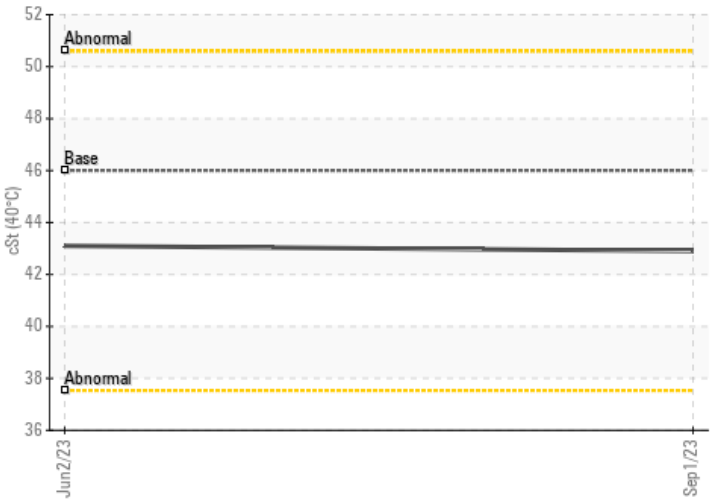
### Ferrous Alloys



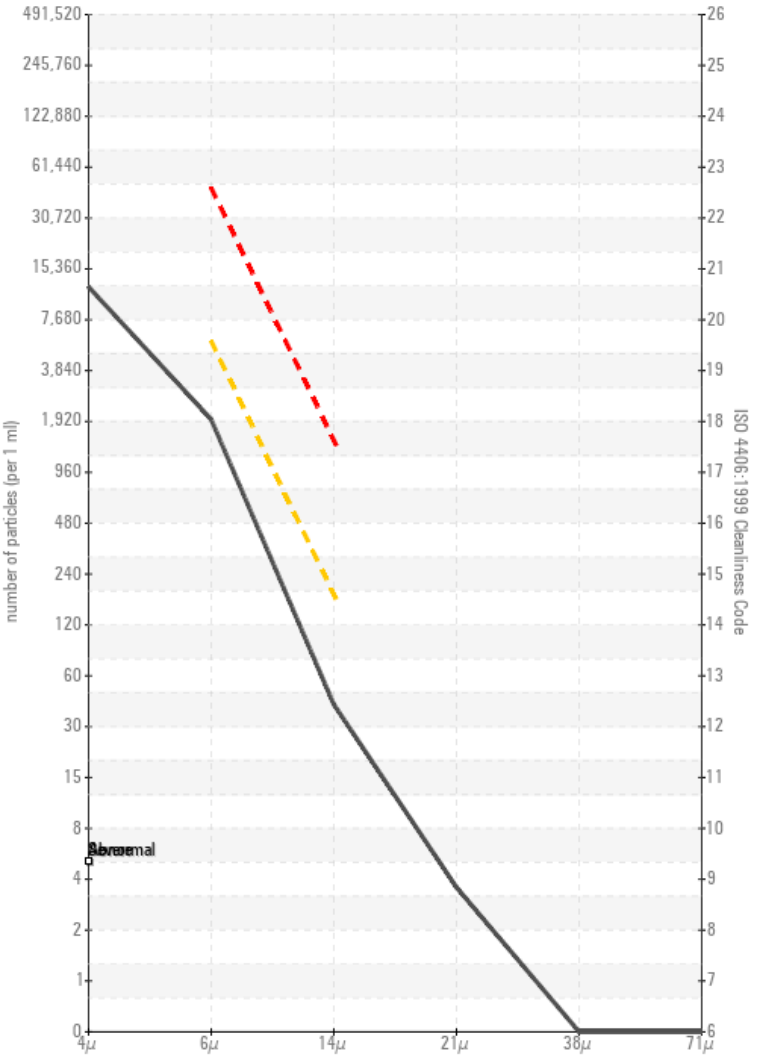

### Non-ferrous Metals




### Viscosity @ 40°C




### Particle Count




### Acid Number