



# CONSTRUCTION EQUIPMENT

592764 HERC VOLVO EC350 310708 - DIESEL ENGINE



**Sample No:** VCP443810  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 592764 HERC



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
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 US 33619  
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## SAMPLE INFORMATION

Sample Number	VCP443810	VCP291171	---	---
Sample Date	01 Jul 2024	15 Oct 2020	---	---
Machine Hours	3516	1683	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---



## OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	● 11.7	---	---
Base Number (BN)	mg KOH/g	█ 6.4	---	---	---
Oxidation (PA)	%	53	71	---	---



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	63	78	---	---
Sulfation (PA)	%	51	64	---	---
Glycol	%	NEG	█ 0.0	---	---
Fuel	%	<1.0	█ 2.4	---	---
Silicon	ppm	█ 4	█ 6	---	---
Sodium	ppm	█ 2	█ 2	---	---
Potassium	ppm	█ 1	█ <1	---	---



## WEAR METALS

Iron	ppm	█ 0	█ 5	---	---
Copper	ppm	█ 0	▲ 129	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ <1	█ 1	---	---
Aluminum	ppm	█ 2	█ 2	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 80	█ 101	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	█ 0	<1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



## ADDITIVES

Calcium	ppm	█ 1846	█ 1508	---	---
Magnesium	ppm	█ 182	█ 603	---	---
Zinc	ppm	█ 1205	█ 812	---	---
Phosphorus	ppm	█ 1018	█ 645	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	191	█ 129	---	---

## 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

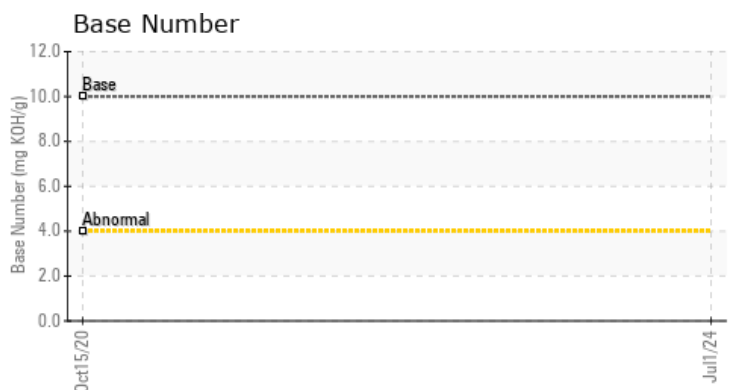
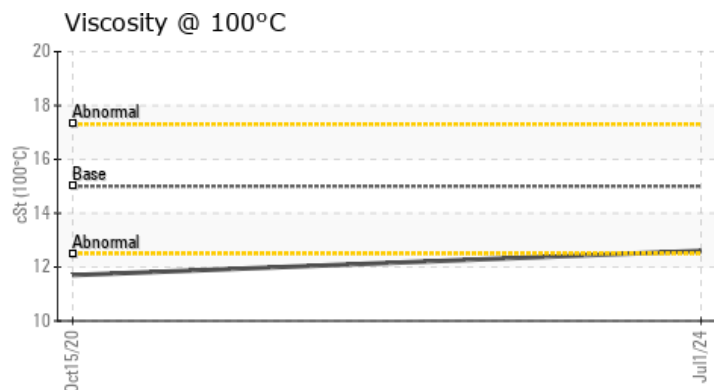
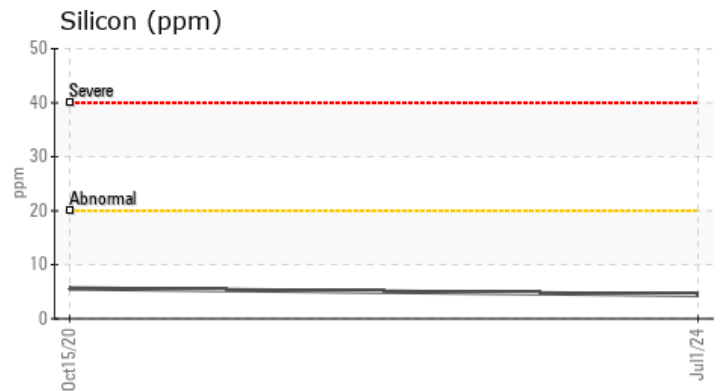
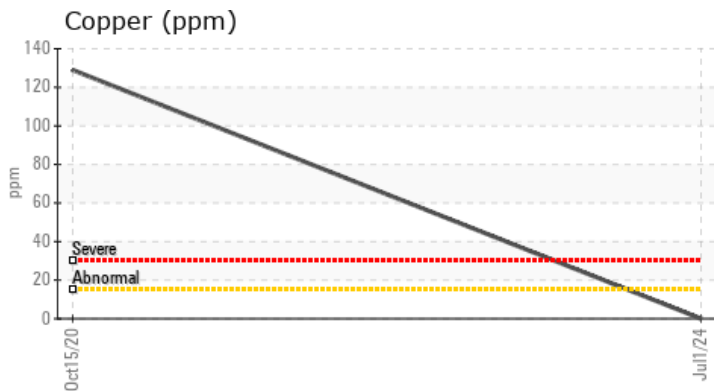
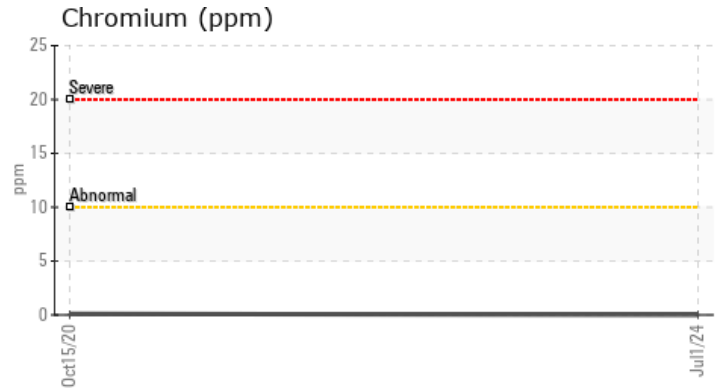
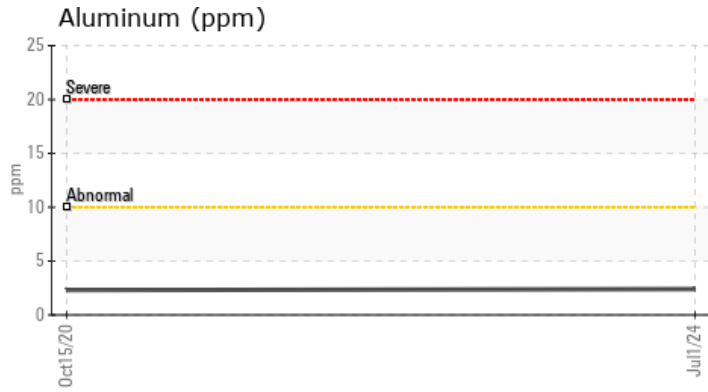
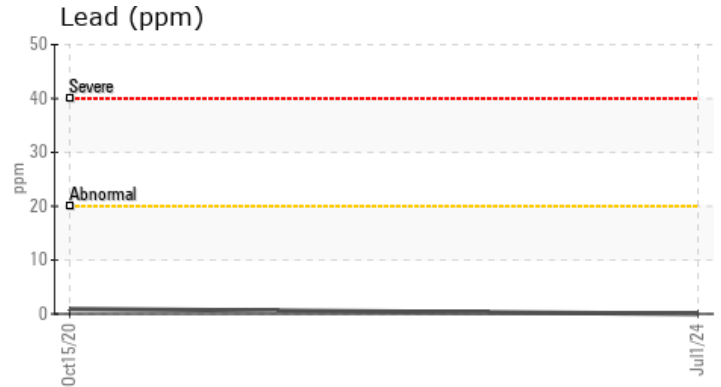
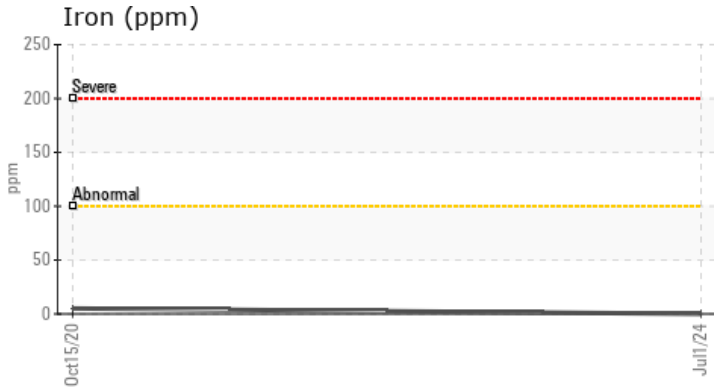
**Depot:** VOLVO0093  
**Unique No:** 11111714  
**Signed:** Don Baldrige  
**Report Date:** 08 Jul 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS





# CONSTRUCTION EQUIPMENT

## 592764 VOLVO EC350 3 10708 - HYDRAULIC SYSTEM



**Sample No:** VCP443812  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 592764



### SAMPLE INFORMATION

Sample Number	VCP443812	VCP291172	---	---
Sample Date	01 Jul 2024	15 Oct 2020	---	---
Machine Hours	3516	1683	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ATTENTION	NORMAL	---	---

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### OIL CONDITION

Visc @ 40°C	cSt	45.4	43.8	---	---
Acid Number (AN)	mg KOH/g	0.67	0.521	---	---



### CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		54196	2039	---	---
Particles >6µm		9099	344	---	---
Particles >14µm		817	35	---	---
ISO 4406:1999 (c)		23/20/17	18/16/12	---	---
Silicon	ppm	3	1	---	---
Sodium	ppm	2	0	---	---
Potassium	ppm	<1	<1	---	---

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 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.



### WEAR METALS

Iron	ppm	7	4	---	---
Copper	ppm	15	22	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	1	0	---	---
Chromium	ppm	1	2	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

Calcium	ppm	418	99	---	---
Magnesium	ppm	6	2	---	---
Zinc	ppm	568	488	---	---
Phosphorus	ppm	474	375	---	---
Barium	ppm	0	0	---	---
Boron	ppm	<1	1	---	---

**Depot:** VOLVO0093  
**Unique No:** 11111966  
**Signed:** Jonathan Hester  
**Report Date:** 08 Jul 2024

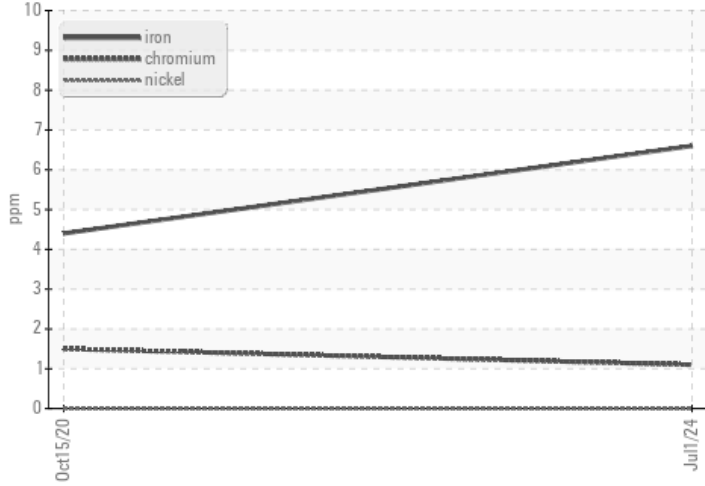


# CONSTRUCTION EQUIPMENT

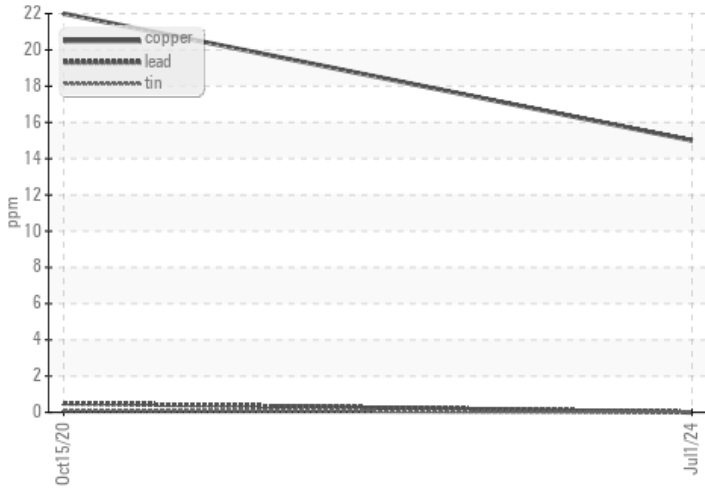


## GRAPHS

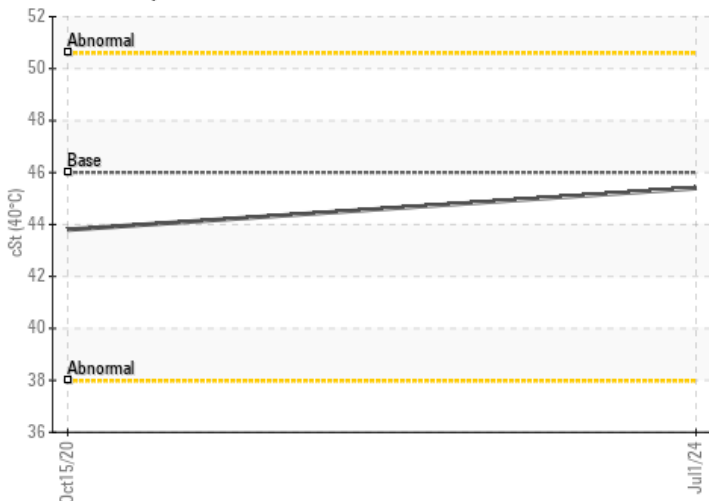
### Ferrous Alloys



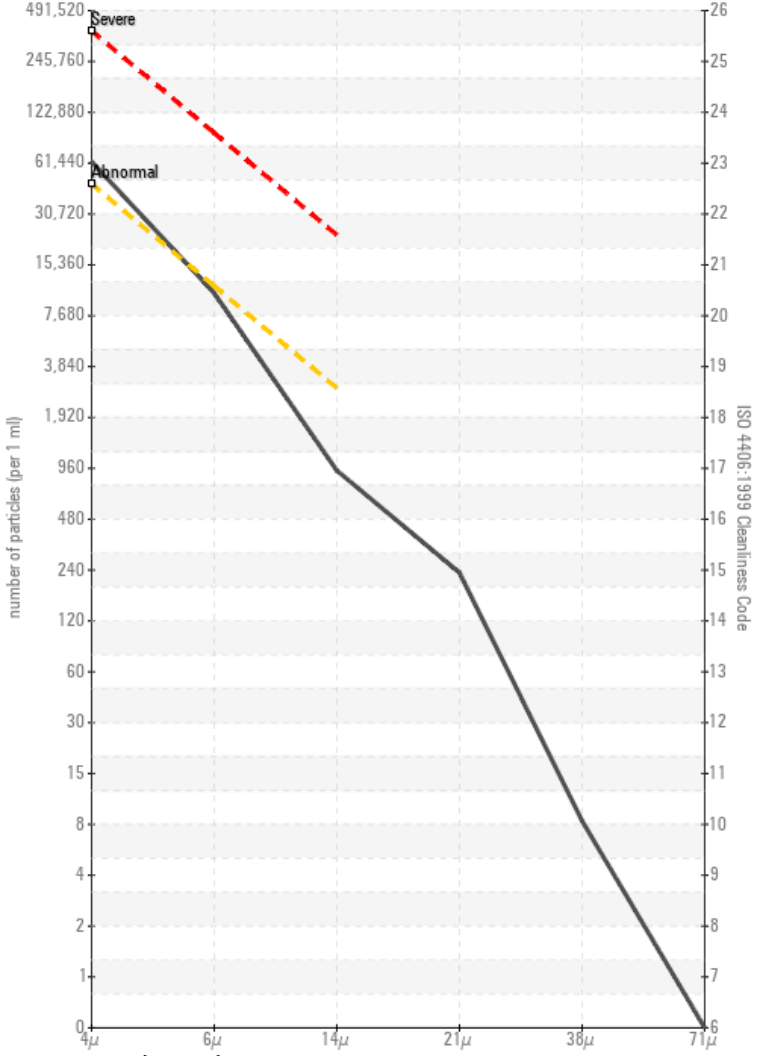
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

