



# CONSTRUCTION EQUIPMENT

## VOLVO ECR145 315439 - HYDRAULIC SYSTEM



**Sample No:** VCP436019  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP436019	---	---	---
Sample Date	13 Oct 2023	---	---	---
Machine Hours	1481	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
Contact: PM Services  
PMServices@ripaconstruction.com  
T:  
F:



### OIL CONDITION

Visc @ 40°C	cSt	█ 43.5	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.60	---	---	---



### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		█ 12093	---	---	---
Particles >6µm		█ 3974	---	---	---
Particles >14µm		█ 472	---	---	---
ISO 4406:1999 (c)		21/19/16	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 0	---	---	---

### Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.  
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.



### WEAR METALS

Iron	ppm	█ 0	---	---	---
Copper	ppm	█ 27	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	█ 69	---	---	---
Magnesium	ppm	█ 0	---	---	---
Zinc	ppm	█ 497	---	---	---
Phosphorus	ppm	█ 375	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

**Depot:** RIPTAM  
**Unique No:** 10776132  
**Signed:** Wes Davis  
**Report Date:** 07 Dec 2023

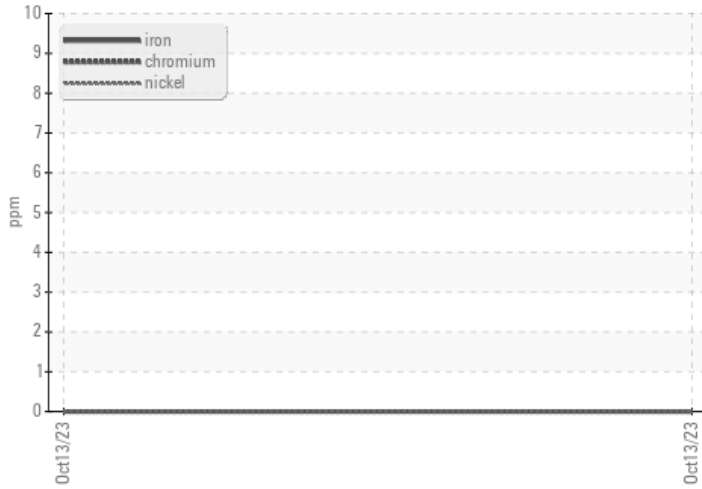


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## GRAPHS

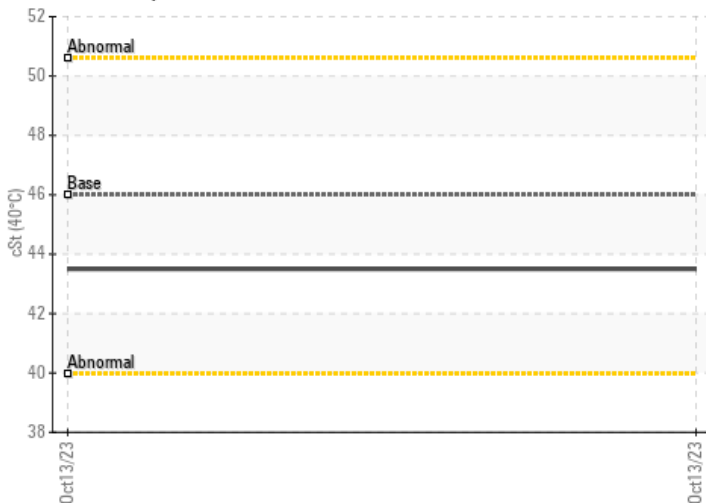
### Ferrous Alloys



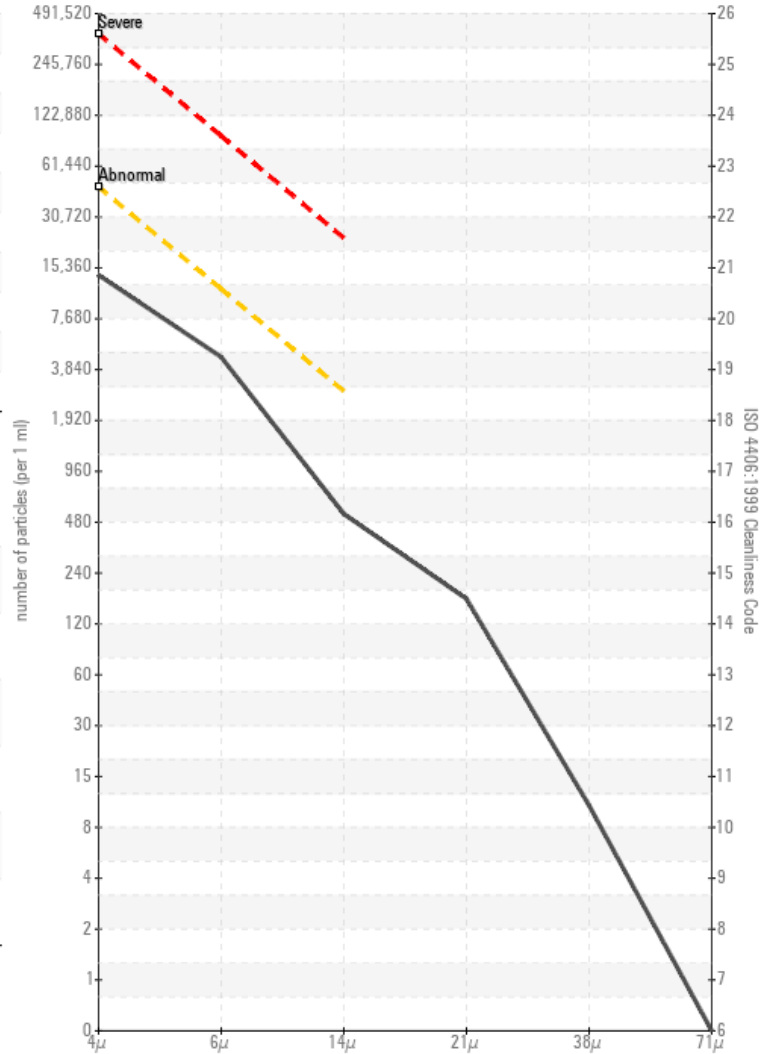
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

