



CONSTRUCTION EQUIPMENT

W03007265-1 A&K VOLVO EC250E 310203 - DIESEL ENGINE



Sample No: VCP401956
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: W03007265-1 A&K



SAMPLE INFORMATION

Sample Number	VCP401956	---	---	---
Sample Date	24 Oct 2023	---	---	---
Machine Hours	3726	---	---	---
Oil Hours	225	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

MCCLUNG-LOGAN EQUIPMENT CO - FREDERICKSBURG
 358 KINGS HWY
 FREDERICKSBURG, VA
 US 22405
 Contact: JW MEADOWS
 jmeadows@mcclung-logan.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	▲ 3.83	---	---	---
Base Number (BN)	mg KOH/g	■ 6.1	---	---	---
Oxidation (PA)	%	■ 56	---	---	---

Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 61	---	---	---
Sulfation (PA)	%	■ 46	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	● 20.0	---	---	---
Silicon	ppm	■ 6	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 3	---	---	---



WEAR METALS

Iron	ppm	■ 10	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 7	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 1196	---	---	---
Magnesium	ppm	■ 61	---	---	---
Zinc	ppm	■ 603	---	---	---
Phosphorus	ppm	■ 549	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 7	---	---	---

Depot: MCCFRE
Unique No: 10713544
Signed: Jonathan Hester
Report Date: 01 Nov 2023

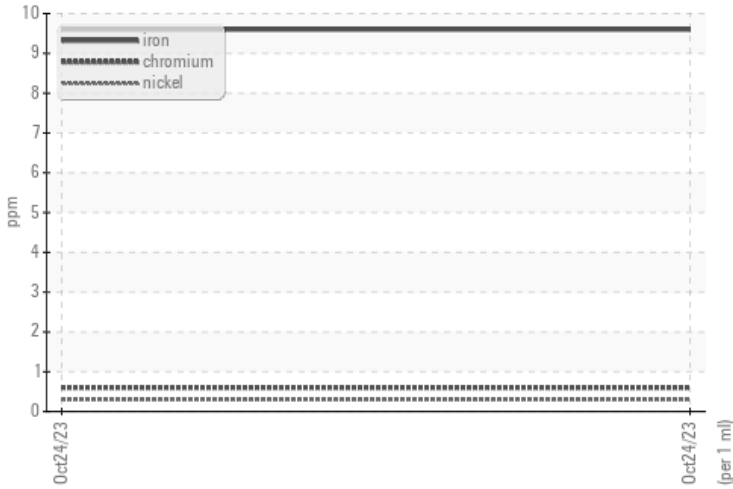


CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

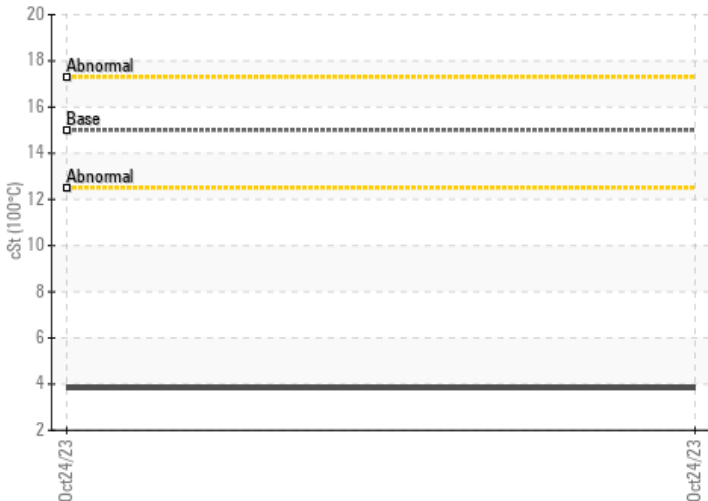
Ferrous Alloys



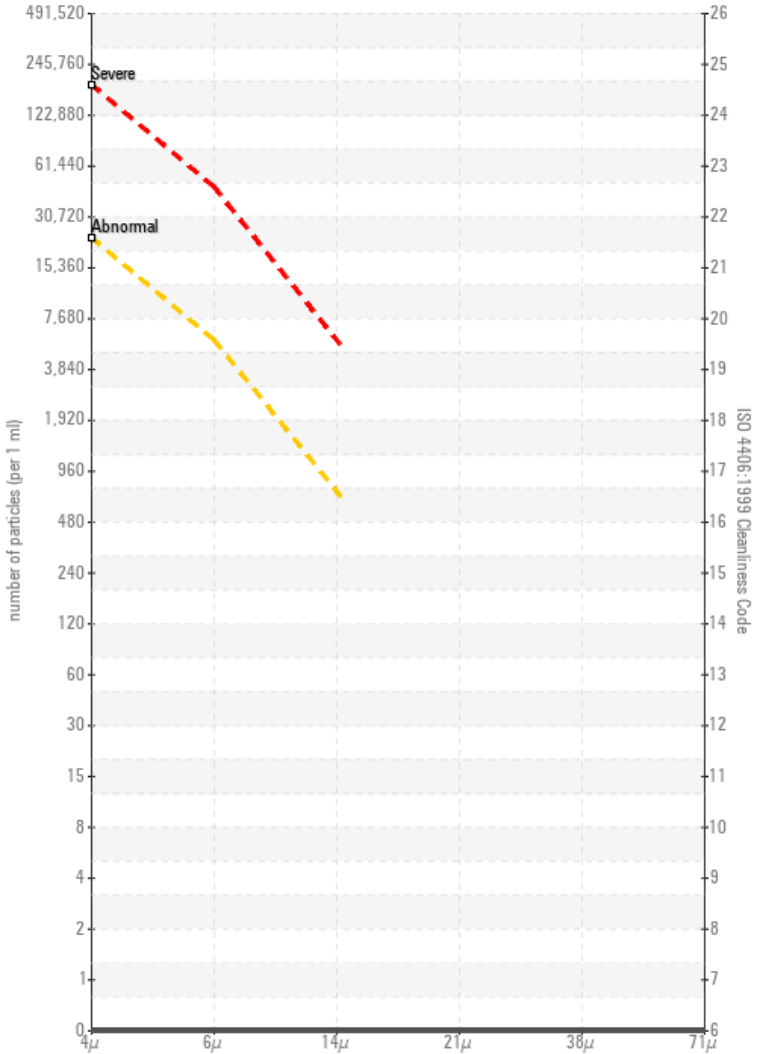
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



Base Number

