



CONSTRUCTION EQUIPMENT

12299 FREEDOM VOLVO ECR145E 314328 - ECR145E - DIESEL ENGINE



Sample No: VCP444362
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 12299 FREEDOM



HOFFMAN EQUIPMENT - LIONVILLE
 120 GORDON DRIVE
 LIONVILLE, PA
 US 19341
 Contact: JIM FEHR
 jim.fehr@hoffmanequip.com
 T: (610)363-9200
 F: (610)594-0829



SAMPLE INFORMATION

Sample Number	VCP444362	---	---	---
Sample Date	19 Mar 2024	---	---	---
Machine Hours	6020	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 10.6	---	---	---
Oxidation (PA)	%	79	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	50	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 2	---	---	---



WEAR METALS

Iron	ppm	█ 6	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 60	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 2688	---	---	---
Magnesium	ppm	█ 763	---	---	---
Zinc	ppm	█ 1748	---	---	---
Phosphorus	ppm	█ 1543	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 97	---	---	---

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: VOLVO8879
Unique No: 10978445
Signed: Sean Felton
Report Date: 17 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

