



CONSTRUCTION EQUIPMENT

HERC VOLVO ECR145 315945 - DIESEL ENGINE



Sample No: VCP440238
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: HERC



SAMPLE INFORMATION

Sample Number	VCP440238	---	---	---
Sample Date	17 Jun 2024	---	---	---
Machine Hours	839	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 100°C	cSt	● 11.2	---	---	---
Base Number (BN)	mg KOH/g	■ 7.6	---	---	---
Oxidation (PA)	%	49	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	49	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.2	---	---	---
Silicon	ppm	■ 6	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ <1	---	---	---



WEAR METALS

Iron	ppm	■ 8	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 28	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 1412	---	---	---
Magnesium	ppm	■ 681	---	---	---
Zinc	ppm	■ 882	---	---	---
Phosphorus	ppm	■ 766	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 96	---	---	---

Depot: VOLVO0093
Unique No: 11090619
Signed: Jonathan Hester
Report Date: 27 Jun 2024



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GRAPHS

