



CONSTRUCTION EQUIPMENT

687399 HERC VOLVO ECR145 314342 - DIESEL ENGINE



Sample No: VCP453910
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 687399 HERC



SAMPLE INFORMATION

Sample Number	VCP453910	---	---	---
Sample Date	09 Mar 2024	---	---	---
Machine Hours	2244	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	---	---	---
Base Number (BN)	mg KOH/g	█ 7.8	---	---	---
Oxidation (PA)	%	59	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	50	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 10	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 4	---	---	---



WEAR METALS

Iron	ppm	█ 13	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	▲ 16	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 87	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1404	---	---	---
Magnesium	ppm	█ 394	---	---	---
Zinc	ppm	█ 1185	---	---	---
Phosphorus	ppm	█ 1020	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	440	---	---	---

Depot: VOLVO0093
Unique No: 10940995
Signed: Sean Felton
Report Date: 26 Mar 2024



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GRAPHS

