



CONSTRUCTION EQUIPMENT

SPM593827 HERC VOLVO ECR235 311787 - DIESEL ENGINE



Sample No: VCP412633
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM593827 HERC



SAMPLE INFORMATION

Sample Number	VCP412633	VCP319775	---	---
Sample Date	08 Aug 2023	15 Sep 2021	---	---
Machine Hours	2592	1063	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.6	---	---
Base Number (BN)	mg KOH/g	8.2	---	---	---
Oxidation (PA)	%	55	73	---	---

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.



CONTAMINATION

Soot %	%	0	0.3	---	---
Nitration (PA)	%	37	78	---	---
Sulfation (PA)	%	55	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	14	---	---
Sodium	ppm	0	3	---	---
Potassium	ppm	2	2	---	---



WEAR METALS

Iron	ppm	3	44	---	---
Copper	ppm	0	9	---	---
Lead	ppm	<1	2	---	---
Tin	ppm	0	3	---	---
Aluminum	ppm	<1	▲ 21	---	---
Chromium	ppm	0	6	---	---
Molybdenum	ppm	82	47	---	---
Nickel	ppm	0	6	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	3	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1446	2149	---	---
Magnesium	ppm	398	333	---	---
Zinc	ppm	1321	1097	---	---
Phosphorus	ppm	1042	885	---	---
Barium	ppm	0	0	---	---
Boron	ppm	481	40	---	---

Depot: VOLVO0093
Unique No: 10604690
Signed: Wes Davis
Report Date: 15 Aug 2023



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GRAPHS

