



CONSTRUCTION EQUIPMENT

298680 COMEX VOLVO EC140EL 311531 - DIESEL ENGINE



Sample No: VCP422888
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 298680 COMEX



SAMPLE INFORMATION

Sample Number	VCP422888	VCP251758	---	---
Sample Date	05 Jul 2023	10 Feb 2021	---	---
Machine Hours	1119	560	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.7	13.2	---	---
Base Number (BN)	mg KOH/g	10.1	---	---	---
Oxidation (PA)	%	76	65	---	---

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 %	%	0.3	0.2	---	---
Nitration (PA)	%	72	53	---	---
Sulfation (PA)	%	60	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	11	21	---	---
Sodium	ppm	3	3	---	---
Potassium	ppm	2	1	---	---



WEAR METALS

Iron	ppm	34	27	---	---
Copper	ppm	6	19	---	---
Lead	ppm	<1	1	---	---
Tin	ppm	1	3	---	---
Aluminum	ppm	7	13	---	---
Chromium	ppm	2	3	---	---
Molybdenum	ppm	31	13	---	---
Nickel	ppm	2	6	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	2	4	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1672	2118	---	---
Magnesium	ppm	493	122	---	---
Zinc	ppm	1018	1051	---	---
Phosphorus	ppm	819	916	---	---
Barium	ppm	0	0	---	---
Boron	ppm	36	11	---	---

Depot: VOLVO0093
Unique No: 10550578
Signed: Wes Davis
Report Date: 11 Jul 2023



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GRAPHS

