



CONSTRUCTION EQUIPMENT

SPM581123 ALPINE DEM VOLVO EC140EL 311517 - DIESEL ENGINE



Sample No: VCP423228
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM581123 ALPINE DEM



SAMPLE INFORMATION

Sample Number	VCP423228	VCP410631	VCP358937	---
Sample Date	28 Jul 2023	13 Apr 2023	23 Mar 2022	---
Machine Hours	2507	2262	1740	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.8	13.9	13.2	---
Base Number (BN)	mg KOH/g	9.3	8.6	10.5	---
Oxidation (PA)	%	55	59	84	---

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 %	%	0.2	0.3	0.4	---
Nitration (PA)	%	52	68	90	---
Sulfation (PA)	%	49	48	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	4	9	---
Sodium	ppm	1	1	<1	---
Potassium	ppm	2	0	2	---



WEAR METALS

Iron	ppm	9	20	43	---
Copper	ppm	7	4	6	---
Lead	ppm	<1	0	0	---
Tin	ppm	<1	<1	1	---
Aluminum	ppm	5	7	13	---
Chromium	ppm	<1	1	3	---
Molybdenum	ppm	62	40	30	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1136	803	1790	---
Magnesium	ppm	1004	709	602	---
Zinc	ppm	1368	872	1281	---
Phosphorus	ppm	1115	797	1072	---
Barium	ppm	0	0	0	---
Boron	ppm	2	9	51	---

Depot: VOLVO8885
Unique No: 10601883
Signed: Wes Davis
Report Date: 11 Aug 2023



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GRAPHS

