



CONSTRUCTION EQUIPMENT

SPM646904 ALPINE DEM VOLVO EC 140EL 311517 - DIESEL ENGINE



Sample No: VCP435703
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM646904 ALPINE DEM



SAMPLE INFORMATION

Sample Number	VCP435703	VCP423228	VCP410631	VCP358937
Sample Date	03 Feb 2024	28 Jul 2023	13 Apr 2023	23 Mar 2022
Machine Hours	2856	2507	2262	1740
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.4	13.8	13.9	13.2
Base Number (BN)	mg KOH/g	9.9	9.3	8.6	10.5
Oxidation (PA)	%	56	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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.3	0.4
Nitration (PA)	%	57	52	68	90
Sulfation (PA)	%	51	49	48	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	9
Sodium	ppm	1	1	1	<1
Potassium	ppm	2	2	0	2



WEAR METALS

Iron	ppm	9	9	20	43
Copper	ppm	2	7	4	6
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	<1	1
Aluminum	ppm	5	5	7	13
Chromium	ppm	<1	<1	1	3
Molybdenum	ppm	46	62	40	30
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	961	1136	803	1790
Magnesium	ppm	835	1004	709	602
Zinc	ppm	1124	1368	872	1281
Phosphorus	ppm	852	1115	797	1072
Barium	ppm	11	0	0	0
Boron	ppm	12	2	9	51

Depot: VOLVO8885
Unique No: 10882806
Signed: Wes Davis
Report Date: 16 Feb 2024



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GRAPHS

