



CONSTRUCTION EQUIPMENT

SPM594509 WM HODGKIN VOLVO EC250EL 310691 - DIESEL ENGINE



Sample No: VCP415101
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM594509 WM HODGKIN



SAMPLE INFORMATION

Sample Number	VCP415101	VCP422602	VCP423397	VCP421924
Sample Date	18 Aug 2023	16 Jun 2023	01 Jun 2023	18 May 2023
Machine Hours	14626	15556	12246	12093
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.3	13.6	14.2
Base Number (BN)	mg KOH/g	8.3	8.7	7.6	9.0
Oxidation (PA)	%	73	77	78	63

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 %	%	0.1	0.3	0.2	0.1
Nitration (PA)	%	55	64	57	47
Sulfation (PA)	%	54	61	60	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	15	13	17	10
Sodium	ppm	2	<1	3	<1
Potassium	ppm	<1	2	3	1



WEAR METALS

Iron	ppm	9	6	12	4
Copper	ppm	1	1	<1	<1
Lead	ppm	0	<1	1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	2	4	1
Chromium	ppm	<1	<1	2	<1
Molybdenum	ppm	60	59	57	61
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1084	1019	990	1037
Magnesium	ppm	1016	985	941	924
Zinc	ppm	1320	1299	1251	1238
Phosphorus	ppm	1053	1029	996	1011
Barium	ppm	0	0	0	0
Boron	ppm	0	0	<1	0

Depot: VOLVO8885
Unique No: 10632413
Signed: Wes Davis
Report Date: 05 Sep 2023



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GRAPHS

