



CONSTRUCTION EQUIPMENT

SPM567191 WM HODGKIN VOLVO EC250EL 310691 - DIESEL ENGINE



Sample No: VCP422602
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM567191 WM HODGKIN



SAMPLE INFORMATION

Sample Number	VCP422602	VCP423397	VCP421924	VCP418535
Sample Date	16 Jun 2023	01 Jun 2023	18 May 2023	05 May 2023
Machine Hours	15556	12246	12093	11968
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.6	14.2	13.2
Base Number (BN)	mg KOH/g	8.7	7.6	9.0	9.2
Oxidation (PA)	%	77	78	63	75



CONTAMINATION

Soot %	%	0.3	0.2	0.1	0.2
Nitration (PA)	%	64	57	47	62
Sulfation (PA)	%	61	60	55	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	13	17	10	17
Sodium	ppm	<1	3	<1	3
Potassium	ppm	2	3	1	1

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.



WEAR METALS

Iron	ppm	6	12	4	7
Copper	ppm	1	<1	<1	1
Lead	ppm	<1	1	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	4	1	<1
Chromium	ppm	<1	2	<1	0
Molybdenum	ppm	59	57	61	58
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1019	990	1037	1132
Magnesium	ppm	985	941	924	946
Zinc	ppm	1299	1251	1238	1259
Phosphorus	ppm	1029	996	1011	992
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	0	7

Depot: VOLVO8885
Unique No: 10548406
Signed: Wes Davis
Report Date: 10 Jul 2023



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GRAPHS

