



CONSTRUCTION EQUIPMENT

D12688 IAA SUSSEX VOLVO L90H 625531 - DIESEL ENGINE



Sample No: VCP418688
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: D12688 IAA SUSSEX



SAMPLE INFORMATION

Sample Number	VCP418688	VCP05784832	VCP360471	VCP360481
Sample Date	19 Sep 2023	02 Mar 2023	11 Aug 2022	02 May 2022
Machine Hours	5001	4014	3097	2524
Oil Hours	500	924	1011	483
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.0	12.9	13.3
Base Number (BN)	mg KOH/g	9.3	9.4	12.0	10.2
Oxidation (PA)	%	83	83	87	81



CONTAMINATION

Soot %	%	0.6	0.6	0.4	0.3
Nitration (PA)	%	79	79	68	60
Sulfation (PA)	%	60	63	66	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	5	4	5
Sodium	ppm	5	0	2	1
Potassium	ppm	1	<1	<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	14	16	8	11
Copper	ppm	4	1	1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	3	4	3	3
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	46	53	45	26
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	2
Manganese	ppm	1	0	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1861	1742	1653	1721
Magnesium	ppm	551	454	481	515
Zinc	ppm	1211	1058	1119	1220
Phosphorus	ppm	1016	890	924	986
Barium	ppm	0	<1	1	0
Boron	ppm	37	69	48	48

Depot: VOLVO0069
Unique No: 10662262
Signed: Don Baldrige
Report Date: 27 Sep 2023



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GRAPHS

