



CONSTRUCTION EQUIPMENT

SW1027192 IAA 3 VOLVO L90H 623884 - DIESEL ENGINE



Sample No: VCP441357
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW1027192 IAA 3



SAMPLE INFORMATION

Sample Number	VCP441357	VCP417468	VCP379916	VCP307507
Sample Date	01 Dec 2023	24 Jul 2023	09 Feb 2023	17 Oct 2022
Machine Hours	11481	10997	10456	10026
Oil Hours	0	0	0	200
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	14.2	14.4	14.3
Base Number (BN)	mg KOH/g	10.3	9.5	9.7	11.3
Oxidation (PA)	%	78	65	65	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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.7	0.8	0.3
Nitration (PA)	%	60	65	72	52
Sulfation (PA)	%	60	54	55	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	4	7	4
Sodium	ppm	3	0	2	0
Potassium	ppm	<1	2	<1	0



WEAR METALS

Iron	ppm	11	14	19	6
Copper	ppm	<1	1	4	3
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	4	3	5	2
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	44	59	58	53
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1627	1355	1357	1301
Magnesium	ppm	567	832	877	841
Zinc	ppm	1201	1252	1299	1245
Phosphorus	ppm	972	1051	1040	1039
Barium	ppm	0	0	0	0
Boron	ppm	34	10	8	13

Depot: VOLVO6174
Unique No: 10780125
Signed: Wes Davis
Report Date: 12 Dec 2023



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GRAPHS

