



CONSTRUCTION EQUIPMENT

SWA435356 COASTAL WA VOLVO L120H 632608 - DIESEL ENGINE



Sample No: VCP419940
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA435356 COASTAL WA



SAMPLE INFORMATION

Sample Number	VCP419940	VCP429261	VCP415768	VCP399650
Sample Date	11 Dec 2023	19 Oct 2023	30 Aug 2023	27 Mar 2023
Machine Hours	10176	9754	9298	7956
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT COMPANY

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OIL CONDITION

Visc @ 100°C	cSt	15.0	14.8	13.7	13.3
Base Number (BN)	mg KOH/g	9.4	9.3	9.0	10.2
Oxidation (PA)	%	57	59	61	79



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.4	0.5	0.4
Nitration (PA)	%	53	58	65	61
Sulfation (PA)	%	52	53	55	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	6	6
Sodium	ppm	0	2	3	2
Potassium	ppm	2	0	0	<1



WEAR METALS

Iron	ppm	11	10	16	9
Copper	ppm	<1	<1	1	<1
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	8	8	12	7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	61	60	70	43
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1029	1064	1321	1485
Magnesium	ppm	954	985	1032	535
Zinc	ppm	1230	1302	1331	1100
Phosphorus	ppm	996	957	1120	905
Barium	ppm	12	0	0	0
Boron	ppm	0	4	14	28

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.

Depot: VOLVO0095
Unique No: 10790962
Signed: Don Baldrige
Report Date: 19 Dec 2023



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VOLVO GRAPHS

