



CONSTRUCTION EQUIPMENT

23990 VOLVO L120H 632990 - DIESEL ENGINE



Sample No: VCP430768
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 23990



SAMPLE INFORMATION

Sample Number	VCP430768	VCP398953	VCP367564	VCP363554
Sample Date	05 Sep 2023	26 Jan 2023	07 Nov 2022	20 Sep 2022
Machine Hours	3601	2518	2022	1683
Oil Hours	1000	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.8	14.0	13.6	13.5
Base Number (BN)	mg KOH/g	8.8	10.4	11.6	11.5
Oxidation (PA)	%	103	92	93	94

CONTAMINATION

Soot %	%	0.5	0.3	0.2	0.4
Nitration (PA)	%	101	73	69	76
Sulfation (PA)	%	69	65	68	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	4	4
Sodium	ppm	3	2	2	1
Potassium	ppm	0	0	0	1

WEAR METALS

Iron	ppm	25	10	10	14
Copper	ppm	4	2	2	3
Lead	ppm	3	1	<1	<1
Tin	ppm	1	1	<1	1
Aluminum	ppm	9	3	3	5
Chromium	ppm	2	<1	<1	<1
Molybdenum	ppm	52	44	45	40
Nickel	ppm	0	<1	<1	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1949	1701	1791	1692
Magnesium	ppm	690	532	538	477
Zinc	ppm	1325	1157	1217	1071
Phosphorus	ppm	1068	922	969	888
Barium	ppm	0	0	0	0
Boron	ppm	17	35	39	24

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: VOLVO3387
Unique No: 10636124
Signed: Don Baldrige
Report Date: 11 Sep 2023



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GRAPHS

