



CONSTRUCTION EQUIPMENT

W06005494-1 BROOKNEA VOLVO L120H 632931 - DIESEL ENGINE



Sample No: VCP411519
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: W06005494-1 BROOKNEA



SAMPLE INFORMATION

Sample Number	VCP411519	VCP417189	VCP396032	VCP403164
Sample Date	28 Jul 2023	09 Jun 2023	23 Mar 2023	07 Jan 2023
Machine Hours	10741	10217	9538	8908
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.8	13.5	14.2
Base Number (BN)	mg KOH/g	8.2	6.4	7.2	6.6
Oxidation (PA)	%	57	65	68	78

CONTAMINATION

Soot %	%	0.4	0.5	0.5	0.7
Nitration (PA)	%	63	66	73	85
Sulfation (PA)	%	53	58	61	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	6	8	8
Sodium	ppm	0	2	3	2
Potassium	ppm	3	2	2	0

WEAR METALS

Iron	ppm	9	11	16	22
Copper	ppm	1	<1	2	3
Lead	ppm	<1	<1	<1	2
Tin	ppm	<1	1	<1	1
Aluminum	ppm	4	7	5	6
Chromium	ppm	<1	<1	1	1
Molybdenum	ppm	83	83	77	80
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	<1	0

ADDITIVES

Calcium	ppm	1401	1545	1669	1945
Magnesium	ppm	755	439	410	410
Zinc	ppm	1265	1243	1124	1201
Phosphorus	ppm	1111	1019	984	997
Barium	ppm	5	0	2	0
Boron	ppm	78	200	106	74

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: VOLVO9010
Unique No: 10586146
Signed: Wes Davis
Report Date: 03 Aug 2023



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VOLVO GRAPHS

