



CONSTRUCTION EQUIPMENT

600105 CRC VOLVO L120H 632093 - DIESEL ENGINE



Sample No: VCP346236
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 600105 CRC



SAMPLE INFORMATION

Sample Number	VCP346236	VCP363785	VCP351801	VCP256031
Sample Date	31 Mar 2023	11 Oct 2022	18 Apr 2022	22 Sep 2021
Machine Hours	0	16539	15363	13470
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	15.0	14.4	14.9	14.3
Base Number (BN)	mg KOH/g	6.5	8.1	7.1	---
Oxidation (PA)	%	79	108	83	97

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	%	---	---	---	0.102
Soot %	%	0.3	0.4	0.2	0.6
Nitration (PA)	%	94	109	93	107
Sulfation (PA)	%	69	77	71	71
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	11	7	16
Sodium	ppm	2	<1	1	3
Potassium	ppm	1	0	2	0



WEAR METALS

Iron	ppm	20	15	11	16
Copper	ppm	1	<1	<1	1
Lead	ppm	<1	1	<1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	0	2	2	9
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	27	31	19	28
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	2132	2072	2394	2346
Magnesium	ppm	473	431	304	352
Zinc	ppm	1337	1236	1341	1241
Phosphorus	ppm	1047	1001	1080	1055
Barium	ppm	0	0	0	0
Boron	ppm	28	26	27	19

Depot: VOLVO1271
Unique No: 10661530
Signed: Wes Davis
Report Date: 26 Sep 2023



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VOLVO GRAPHS

