



CONSTRUCTION EQUIPMENT

SPM659788-10 WM VOLVO L120H 632377 - DIESEL ENGINE



Sample No: VCP434427
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM659788-10 WM



SAMPLE INFORMATION

Sample Number	VCP434427	VCP434995	VCP321052	VCP367992
Sample Date	17 Jan 2024	08 Nov 2023	06 Sep 2023	24 Jan 2023
Machine Hours	11308	10919	16550	9215
Oil Hours	400	700	0	371
Oil Changed	Changed	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.4	12.9	13.0	13.6
Base Number (BN)	mg KOH/g	9.4	9.5	10.6	9.6
Oxidation (PA)	%	62	87	81	57

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 %	%	0.3	0.6	0.3	0.3
Nitration (PA)	%	56	70	56	54
Sulfation (PA)	%	54	66	63	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	9	7	4
Sodium	ppm	<1	1	2	<1
Potassium	ppm	1	<1	<1	0

WEAR METALS

Iron	ppm	9	14	10	10
Copper	ppm	<1	<1	1	<1
Lead	ppm	<1	1	<1	<1
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	6	10	10	8
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	52	41	44	61
Nickel	ppm	<1	<1	<1	1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1015	1614	1796	1040
Magnesium	ppm	858	575	623	963
Zinc	ppm	1177	1205	1297	1245
Phosphorus	ppm	993	1015	1057	1028
Barium	ppm	0	0	0	0
Boron	ppm	3	29	48	2

Depot: VOLVO5054
Unique No: 10860021
Signed: Don Baldrige
Report Date: 05 Feb 2024



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VOLVO GRAPHS

