



CONSTRUCTION EQUIPMENT

SPM621859 PADNOS VOLVO L70H 624655 - DIESEL ENGINE



Sample No: VCP428550
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM621859 PADNOS



SAMPLE INFORMATION

Sample Number	VCP428550	VCP410544	VCP396654	VCP386558
Sample Date	07 Nov 2023	10 May 2023	13 Feb 2023	03 Oct 2022
Machine Hours	2611	1480	982	503
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.4	14.7	13.1
Base Number (BN)	mg KOH/g	9.5	10.4	9.0	11.3
Oxidation (PA)	%	65	81	62	83

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 %	%	0.6	0.5	0.5	0.5
Nitration (PA)	%	71	63	72	76
Sulfation (PA)	%	55	63	53	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	7	19
Sodium	ppm	2	2	1	<1
Potassium	ppm	<1	0	1	0



WEAR METALS

Iron	ppm	137	153	230	321
Copper	ppm	<1	1	3	8
Lead	ppm	0	0	0	2
Tin	ppm	<1	<1	2	3
Aluminum	ppm	3	5	7	26
Chromium	ppm	2	2	4	8
Molybdenum	ppm	57	45	58	38
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	2	2	3	8
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1036	1667	1113	1655
Magnesium	ppm	945	597	868	589
Zinc	ppm	1234	1151	1192	1105
Phosphorus	ppm	1016	937	1000	921
Barium	ppm	0	0	2	2
Boron	ppm	2	41	4	46

Depot: VOLVO5023
Unique No: 10764793
Signed: Angela Borella
Report Date: 01 Dec 2023



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GRAPHS

