



CONSTRUCTION EQUIPMENT

SPM579504 WASTE MGMT VOLVO L70H 622630 - DIESEL ENGINE



Sample No: VCP417629
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM579504 WASTE MGMT



SAMPLE INFORMATION

Sample Number	VCP417629	VCP421048	VCP405132	VCP393343
Sample Date	07 Jul 2023	16 May 2023	03 Apr 2023	10 Feb 2023
Machine Hours	10741	10311	9826	9322
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	13.2	13.3	13.5	13.6
Base Number (BN)	mg KOH/g	10.0	9.9	8.9	10.8
Oxidation (PA)	%	85	85	74	82

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

Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	60	61	58	60
Sulfation (PA)	%	61	63	54	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	15	11	5	10
Sodium	ppm	2	0	3	2
Potassium	ppm	<1	1	44	0



WEAR METALS

Iron	ppm	6	7	79	6
Copper	ppm	1	<1	11	<1
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	<1	2	<1
Aluminum	ppm	5	3	31	10
Chromium	ppm	<1	<1	3	<1
Molybdenum	ppm	43	46	64	44
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	2	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1844	1702	1912	1712
Magnesium	ppm	569	511	432	524
Zinc	ppm	1236	1135	1224	1115
Phosphorus	ppm	988	921	982	901
Barium	ppm	0	0	0	0
Boron	ppm	30	29	37	40

Depot: VOLVO0093
Unique No: 10559751
Signed: Wes Davis
Report Date: 16 Jul 2023



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GRAPHS

