



CONSTRUCTION EQUIPMENT

VOLVO L90H 624404 - DIESEL ENGINE



Sample No: VCP407957
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP407957	VCP356009	VCP359482	VCP347204
Sample Date	15 Jun 2023	19 Dec 2022	01 Apr 2022	17 Dec 2021
Machine Hours	0	16595	13581	12261
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.1	12.9	13.3
Base Number (BN)	mg KOH/g	9.8	11.0	9.0	8.8
Oxidation (PA)	%	91	87	90	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

Soot %	%	0.5	0.5	0.6	0.8
Nitration (PA)	%	69	75	92	95
Sulfation (PA)	%	64	65	65	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	12	5	8
Sodium	ppm	15	2	3	2
Potassium	ppm	10	1	0	<1



WEAR METALS

Iron	ppm	11	11	12	16
Copper	ppm	0	<1	1	2
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	8	4	4	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	46	53	43	45
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1863	1700	1584	2045
Magnesium	ppm	564	529	535	564
Zinc	ppm	1255	1166	1002	1223
Phosphorus	ppm	1002	955	833	1170
Barium	ppm	0	0	0	0
Boron	ppm	36	36	30	21

Depot: VOLVO0142
Unique No: 10521587
Signed: Sean Felton
Report Date: 20 Jun 2023



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GRAPHS

