



CONSTRUCTION EQUIPMENT

VOLVO L70H 624417 - DIESEL ENGINE



Sample No: VCP441175
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP441175	VCP455331	VCP421017	VCP424798
Sample Date	11 Jul 2024	13 Mar 2024	07 Dec 2023	02 Aug 2023
Machine Hours	4555	4073	3660	3042
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	14.1	13.0	13.1
Base Number (BN)	mg KOH/g	10.0	9.4	10.1	9.2
Oxidation (PA)	%	78	64	81	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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.3	0.5
Nitration (PA)	%	61	56	63	69
Sulfation (PA)	%	60	53	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	6
Sodium	ppm	2	4	4	3
Potassium	ppm	0	0	1	1



WEAR METALS

Iron	ppm	6	6	10	14
Copper	ppm	<1	<1	<1	3
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	4	4	5	5
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	43	53	65	48
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1713	1203	1687	1771
Magnesium	ppm	546	770	537	546
Zinc	ppm	1128	1146	1152	1143
Phosphorus	ppm	953	971	938	927
Barium	ppm	0	0	0	0
Boron	ppm	31	17	35	35

Depot: VOLVO0090
Unique No: 11124275
Signed: Wes Davis
Report Date: 15 Jul 2024



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GRAPHS

