



CONSTRUCTION EQUIPMENT

SW1033237 IAA 7 VOLVO L90H 626385 - DIESEL ENGINE



Sample No: VCP438515
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1033237 IAA 7



SAMPLE INFORMATION

Sample Number	VCP438515	VCP436942	VCP441351	VCP416030
Sample Date	24 Apr 2024	26 Jan 2024	01 Nov 2023	15 Aug 2023
Machine Hours	4093	3570	2969	2405
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	14.2	13.6	13.4	13.6
Base Number (BN)	mg KOH/g	9.5	9.9	9.3	9.5
Oxidation (PA)	%	74	86	74	78

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	0.6	0.6	0.7
Nitration (PA)	%	68	75	71	71
Sulfation (PA)	%	59	63	59	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	6	8
Sodium	ppm	1	2	1	2
Potassium	ppm	0	1	<1	3



WEAR METALS

Iron	ppm	12	12	12	19
Copper	ppm	0	<1	<1	1
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	54	44	53	51
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	<1



ADDITIVES

Calcium	ppm	1495	1455	1309	1624
Magnesium	ppm	818	590	882	683
Zinc	ppm	1283	1167	1327	1224
Phosphorus	ppm	1079	959	1032	983
Barium	ppm	0	0	0	0
Boron	ppm	15	21	14	19

Depot: VOLVO6174
Unique No: 11006059
Signed: Wes Davis
Report Date: 02 May 2024



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VOLVO GRAPHS

