



CONSTRUCTION EQUIPMENT

W0330039 IAA VOLVO L90G 3867 - DIESEL ENGINE



Sample No: VCP411141
Oil Type: CHEVRON 15W40
Job No: W0330039 IAA



SAMPLE INFORMATION

Sample Number	VCP411141	VCP220980	VCP203729	VCP203737
Sample Date	02 Apr 2024	12 Sep 2018	14 Nov 2017	14 Aug 2017
Machine Hours	22347	12769	10653	9995
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.63	13.01	13.22
Base Number (BN)	mg KOH/g	7.3	---	---	---
Oxidation (PA)	%	71	69	52	56



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.4	0.1	0.3
Nitration (PA)	%	78	71	50	58
Sulfation (PA)	%	61	58	44	50
Glycol	%	NEG	NEG	0.0	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	6	6	4
Sodium	ppm	2	2	50	18
Potassium	ppm	3	3	47	4



WEAR METALS

Iron	ppm	20	9	10	11
Copper	ppm	2	<1	1	<1
Lead	ppm	9	<1	<1	1
Tin	ppm	1	0	0	6
Aluminum	ppm	9	3	6	6
Chromium	ppm	2	<1	<1	<1
Molybdenum	ppm	113	108	88	90
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1378	1618	1555	1581
Magnesium	ppm	678	523	438	418
Zinc	ppm	883	843	857	931
Phosphorus	ppm	707	756	718	753
Barium	ppm	<1	0	0	0
Boron	ppm	88	158	114	130

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.

Depot: VOLV00170
Unique No: 10967642
Signed: Wes Davis
Report Date: 10 Apr 2024



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GRAPHS

