



CONSTRUCTION EQUIPMENT

9456 VOLVO L90H 622309 - DIESEL ENGINE



Sample No: VCP413943
Oil Type: CHEVRON 15W40
Job No: 9456



SAMPLE INFORMATION

Sample Number	VCP413943	VCP344894	VCP307833	---
Sample Date	10 Aug 2023	20 Dec 2021	21 Jul 2021	---
Machine Hours	10937	8585	7576	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	14.8	14.3	14.0	---
Base Number (BN)	mg KOH/g	5.5	8.1	---	---
Oxidation (PA)	%	78	86	87	---

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 %	%	1.2	0.4	0.4	---
Nitration (PA)	%	103	92	93	---
Sulfation (PA)	%	75	69	71	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	8	6	---
Sodium	ppm	17	<1	3	---
Potassium	ppm	2	<1	<1	---



WEAR METALS

Iron	ppm	37	13	15	---
Copper	ppm	2	1	1	---
Lead	ppm	2	1	3	---
Tin	ppm	1	<1	<1	---
Aluminum	ppm	9	9	6	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	25	127	129	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	<1	1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	1	<1	<1	---
Vanadium	ppm	0	<1	<1	---



ADDITIVES

Calcium	ppm	2544	1578	1685	---
Magnesium	ppm	154	667	709	---
Zinc	ppm	1230	862	906	---
Phosphorus	ppm	960	719	789	---
Barium	ppm	0	<1	0	---
Boron	ppm	4	206	172	---

Depot: VOLV00150
Unique No: 10603843
Signed: Wes Davis
Report Date: 15 Aug 2023



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GRAPHS

