



CONSTRUCTION EQUIPMENT

X58584 VOLVO L220H 003442 - DIESEL ENGINE



Sample No: VCP426051
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: X58584



SAMPLE INFORMATION

Sample Number	VCP426051	VCP367482	VCP384340	---
Sample Date	21 Sep 2023	28 Apr 2023	30 Mar 2023	---
Machine Hours	4161	2537	2097	---
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	12.9	12.9	12.9	---
Base Number (BN)	mg KOH/g	9.2	8.4	9.5	---
Oxidation (PA)	%	79	78	83	---

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 %	%	0.2	0.1	0.2	---
Nitration (PA)	%	53	49	62	---
Sulfation (PA)	%	60	57	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	5	6	---
Sodium	ppm	5	1	2	---
Potassium	ppm	1	0	2	---



WEAR METALS

Iron	ppm	6	5	6	---
Copper	ppm	2	1	10	---
Lead	ppm	0	0	0	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	43	44	40	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1791	1782	1870	---
Magnesium	ppm	542	565	530	---
Zinc	ppm	1175	1242	1254	---
Phosphorus	ppm	993	988	1008	---
Barium	ppm	0	0	0	---
Boron	ppm	32	44	35	---

Depot: SCOSAI
Unique No: 10662258
Signed: Don Baldrige
Report Date: 27 Sep 2023



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GRAPHS

