



CONSTRUCTION EQUIPMENT

X58489 VOLVO L120H 633249 - DIESEL ENGINE



Sample No: VCP413371
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: X58489



SAMPLE INFORMATION

Sample Number	VCP413371	VCP367480	VCP367214	---
Sample Date	28 Aug 2023	02 May 2023	12 Jan 2023	---
Machine Hours	1518	955	411	---
Oil Hours	0	0	411	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

SCOTT EQUIPMENT COMPANY LLC - Saint Rose
 PO BOX 997
 SAINT ROSE, LA
 US 70087
 Contact: DENISE CORVERS
 dcorvers@scottcompanies.com
 T: (504)461-0961
 F: (504)461-0970



OIL CONDITION

Visc @ 100°C	cSt	13.7	13.4	12.7	---
Base Number (BN)	mg KOH/g	10.3	9.2	9.9	---
Oxidation (PA)	%	85	77	72	---

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	0.6	0.4	---
Nitration (PA)	%	72	60	57	---
Sulfation (PA)	%	65	58	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	7	15	---
Sodium	ppm	<1	2	2	---
Potassium	ppm	<1	1	2	---



WEAR METALS

Iron	ppm	22	21	33	---
Copper	ppm	3	4	10	---
Lead	ppm	<1	0	2	---
Tin	ppm	2	1	2	---
Aluminum	ppm	9	19	81	---
Chromium	ppm	<1	1	4	---
Molybdenum	ppm	41	40	37	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	1	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1628	1611	1517	---
Magnesium	ppm	482	519	569	---
Zinc	ppm	1089	1142	1085	---
Phosphorus	ppm	907	906	939	---
Barium	ppm	0	0	19	---
Boron	ppm	17	30	46	---

Depot: SCOSAI
Unique No: 10630059
Signed: Wes Davis
Report Date: 31 Aug 2023



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GRAPHS

