



CONSTRUCTION EQUIPMENT

SPM702771 VOLVO L220E 2194 - DIESEL ENGINE



Sample No: VCP453993
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM702771



SAMPLE INFORMATION

Sample Number	VCP453993	VCP404600	VCP365279	---
Sample Date	08 Jul 2024	25 Apr 2023	10 Oct 2022	---
Machine Hours	25071	24189	25053	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Changed	Not Chngd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

WASTE MANAGEMENT - GARY
 1508 SHERMAN ST
 GARY, IN
 US 46406
 Contact: TARA RORK



OIL CONDITION

Visc @ 100°C	cSt	13.8	14.2	13.7	---
Base Number (BN)	mg KOH/g	9.3	8.9	10.5	---
Oxidation (PA)	%	55	50	63	---

T:
F:

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	---
Soot %	%	0.3	0.1	0.9	---
Nitration (PA)	%	49	38	68	---
Sulfation (PA)	%	49	45	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	2	3	4	---
Sodium	ppm	2	0	0	---
Potassium	ppm	2	2	0	---



WEAR METALS

Iron	ppm	4	2	12	---
Copper	ppm	0	0	<1	---
Lead	ppm	<1	0	1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	<1	<1	1	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	59	60	56	---
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	1045	1096	1160	---
Magnesium	ppm	927	1043	873	---
Zinc	ppm	1124	1383	1206	---
Phosphorus	ppm	992	1090	1016	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	8	---

Depot: WASGARIN
Unique No: 11128805
Signed: Wes Davis
Report Date: 18 Jul 2024



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GRAPHS

