



CONSTRUCTION EQUIPMENT

SWA351046-10 VOLVO L220H 2752 - DIESEL ENGINE



Sample No: VCP412859
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: SWA351046-10



SAMPLE INFORMATION

Sample Number	VCP412859	VCP396047	VCP383806	VCP390540
Sample Date	07 Sep 2023	23 May 2023	23 Jan 2023	28 Dec 2022
Machine Hours	15591	14548	13352	13064
Oil Hours	0	300	300	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL



WHEELABRATOR

1 CHARLES POINT AVE
 PEEKSKILL, NY
 US 10566
 Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	13.0	12.9	12.9	13.3
Base Number (BN)	mg KOH/g	9.8	10.3	10.7	9.1
Oxidation (PA)	%	81	82	79	82

T:
F:



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	52	50	52	73
Sulfation (PA)	%	60	62	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	8	8	▲ 22
Sodium	ppm	3	2	2	2
Potassium	ppm	1	0	<1	1

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.



WEAR METALS

Iron	ppm	2	2	3	6
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	1	<1	<1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	40	39	39	42
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1899	1696	1667	1669
Magnesium	ppm	552	507	519	507
Zinc	ppm	1209	1121	1175	1154
Phosphorus	ppm	983	909	925	948
Barium	ppm	0	0	0	0
Boron	ppm	40	57	58	31

Depot: WHEPEE
Unique No: 10649667
Signed: Wes Davis
Report Date: 20 Sep 2023



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GRAPHS

