



CONSTRUCTION EQUIPMENT

SWA572466-10 VOLVO L120H 632789 - DIESEL ENGINE



Sample No: VCP432004
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: SWA572466-10



SAMPLE INFORMATION

Sample Number	VCP432004	VCP376120	VCP363200	VCP332053
Sample Date	30 May 2024	26 Oct 2022	04 May 2022	14 Jan 2022
Machine Hours	7044	4122	3072	2502
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

DUFFY LAYTON
 12 HUNNS LAKE RD
 STANFORDVILLE, NY
 US 12581
 Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	13.0	13.5	13.6	13.3
Base Number (BN)	mg KOH/g	10.2	12.1	9.9	10.3
Oxidation (PA)	%	86	90	83	96

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	NEG
Soot %	%	0.6	0.4	0.2	0.3
Nitration (PA)	%	73	70	68	94
Sulfation (PA)	%	64	66	61	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	5
Sodium	ppm	4	1	2	2
Potassium	ppm	<1	2	0	0



WEAR METALS

Iron	ppm	12	9	10	14
Copper	ppm	2	1	2	3
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	<1	1	1
Aluminum	ppm	5	4	6	8
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	41	41	42
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1826	1756	1811	1691
Magnesium	ppm	516	479	560	477
Zinc	ppm	1163	1159	1178	1131
Phosphorus	ppm	1010	952	1022	929
Barium	ppm	0	0	0	1
Boron	ppm	34	33	41	31

Depot: DUFSTA
Unique No: 11071689
Signed: Wes Davis
Report Date: 11 Jun 2024



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GRAPHS

