



CONSTRUCTION EQUIPMENT

SWA286531-10 VOLVO L90H 623596 - DIESEL ENGINE



Sample No: VCP407434
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: SWA286531-10



SAMPLE INFORMATION

Sample Number	VCP407434	VCP387313	VCP376198	VCP316694
Sample Date	28 Jun 2023	07 Feb 2023	22 Aug 2022	16 Dec 2021
Machine Hours	11338	10887	10360	9295
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	N/A	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

IAA - INSURANCE AUTO AUCTIONS - ROCK TAVERN
 39 STONE CASTLE RD
 ROCK TAVERN, NY
 US 12575
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 100°C	cSt	█ 12.3	█ 12.3	█ 12.0	▲ 12.1
Base Number (BN)	mg KOH/g	█ 10.1	█ 9.9	█ 7.9	█ 11.3
Oxidation (PA)	%	83	80	65	85

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

Soot %	%	█ 0.2	█ 0.2	█ 0.2	█ 0.5
Nitration (PA)	%	63	66	68	73
Sulfation (PA)	%	60	59	60	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	█ 2.3
Silicon	ppm	█ 6	█ 5	█ 4	█ 6
Sodium	ppm	█ 0	█ 2	█ 0	█ 3
Potassium	ppm	█ 1	█ <1	█ 2	█ <1

WEAR METALS

Iron	ppm	█ 6	█ 6	█ 4	█ 12
Copper	ppm	█ <1	█ <1	█ <1	█ <1
Lead	ppm	█ 0	█ <1	█ 0	█ 0
Tin	ppm	█ <1	█ <1	█ <1	█ <1
Aluminum	ppm	█ 2	█ 2	█ 2	▲ 22
Chromium	ppm	█ <1	█ <1	█ 0	█ <1
Molybdenum	ppm	█ 41	█ 41	█ 69	█ 38
Nickel	ppm	█ <1	█ 0	█ 0	█ 0
Titanium	ppm	0	0	0	<1
Silver	ppm	█ 0	█ 0	█ 0	█ 0
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	█ 1655	█ 1684	█ 1369	█ 1929
Magnesium	ppm	467	█ 482	█ 368	█ 455
Zinc	ppm	█ 1082	█ 1153	█ 1092	█ 1062
Phosphorus	ppm	█ 928	█ 913	█ 930	█ 995
Barium	ppm	█ 0	█ 0	█ <1	█ 0
Boron	ppm	█ 45	█ 56	█ 262	█ 54

Depot: INSROC
Unique No: 10561124
Signed: Wes Davis
Report Date: 18 Jul 2023



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VOLVO GRAPHS

