



CONSTRUCTION EQUIPMENT

SWA508699-10 VOLVO L90H 625549 - DIESEL ENGINE



Sample No: VCP436046
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: SWA508699-10



SAMPLE INFORMATION

Sample Number	VCP436046	VCP390360	VCP363802	VCP323111
Sample Date	18 Mar 2024	03 Feb 2023	14 Sep 2022	13 Apr 2022
Machine Hours	5331	3445	2817	2273
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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	13.6	13.0	12.9
Base Number (BN)	mg KOH/g	10.2	9.0	11.8	10.2
Oxidation (PA)	%	90	63	88	79

T:
F:

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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 %	%	0.2	0.3	0.3	0.2
Nitration (PA)	%	60	63	68	60
Sulfation (PA)	%	64	54	65	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	2.8	<1.0	<1.0	<1.0
Silicon	ppm	9	6	10	10
Sodium	ppm	3	1	2	1
Potassium	ppm	2	<1	0	<1



WEAR METALS

Iron	ppm	8	10	8	13
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	3	3	4
Chromium	ppm	<1	1	1	1
Molybdenum	ppm	41	61	37	44
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1610	1378	1620	1810
Magnesium	ppm	486	786	469	544
Zinc	ppm	1072	1329	1028	1182
Phosphorus	ppm	894	1047	851	1021
Barium	ppm	0	0	0	0
Boron	ppm	52	65	37	60

Depot: INSROC
Unique No: 10963041
Signed: Wes Davis
Report Date: 08 Apr 2024



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GRAPHS

