



CONSTRUCTION EQUIPMENT

SPM593906 VOLVO L90H 624611 - DIESEL ENGINE



Sample No: VCP415265
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM593906



SAMPLE INFORMATION

Sample Number	VCP415265	VCP405709	VCP389837	VCP371602
Sample Date	15 Aug 2023	22 Mar 2023	28 Sep 2022	12 Jul 2022
Machine Hours	7131	7049	6426	6096
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

IAA - INSURANCE AUTO AUCTIONS - AURORA
 280 E SULLIVAN
 AURORA, IL
 US 60505
 Contact: Service Manager

OIL CONDITION

Visc @ 100°C	cSt	14.6	13.3	14.3	14.5
Base Number (BN)	mg KOH/g	8.4	8.2	10.6	9.2
Oxidation (PA)	%	70	70	65	79

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 %	%	0.5	0.4	0.5	0.8
Nitration (PA)	%	84	82	70	98
Sulfation (PA)	%	57	56	57	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	3	4
Sodium	ppm	2	2	0	3
Potassium	ppm	<1	<1	2	4

WEAR METALS

Iron	ppm	11	13	7	14
Copper	ppm	2	<1	<1	1
Lead	ppm	0	<1	<1	1
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	2	3	3	4
Chromium	ppm	1	1	<1	1
Molybdenum	ppm	68	61	63	64
Nickel	ppm	0	0	0	1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	1200	1105	1094	1163
Magnesium	ppm	1118	955	959	1026
Zinc	ppm	1463	1255	1281	1287
Phosphorus	ppm	1160	1041	1066	1048
Barium	ppm	0	2	0	0
Boron	ppm	<1	0	1	14

Depot: INSAUR
Unique No: 10632410
Signed: Wes Davis
Report Date: 05 Sep 2023



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GRAPHS

