



CONSTRUCTION EQUIPMENT

W02007396 VOLVO L90G 617024 - DIESEL ENGINE



Sample No: VCP416216
Oil Type: MOBIL 15W40
Job No: W02007396



SAMPLE INFORMATION

Sample Number	VCP416216	VCP350419	VCP312617	VCP295367
Sample Date	20 Jul 2023	04 Jan 2022	22 Sep 2021	12 Jan 2021
Machine Hours	11842	11035	10584	9725
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

IAA - INSURANCE AUTO AUCTIONS - CULPEPER
15201 REVIEW RD
CULPEPER, VA
US 22701
Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	12.0	13.0	12.3	12.1
Base Number (BN)	mg KOH/g	7.9	11.0	---	---
Oxidation (PA)	%	83	88	80	80

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	0.5	0.3	0.6
Nitration (PA)	%	88	72	63	71
Sulfation (PA)	%	60	65	62	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	6	4	7
Sodium	ppm	3	1	4	4
Potassium	ppm	<1	0	1	0



WEAR METALS

Iron	ppm	22	14	10	17
Copper	ppm	1	<1	<1	<1
Lead	ppm	<1	<1	<1	2
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	6	6	4	7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	50	48	45	43
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1771	2002	1641	1774
Magnesium	ppm	530	574	499	580
Zinc	ppm	1134	1236	1034	1164
Phosphorus	ppm	937	1073	923	981
Barium	ppm	0	0	0	0
Boron	ppm	28	30	42	33

Depot: IAACUL
Unique No: 10577357
Signed: Wes Davis
Report Date: 31 Jul 2023



CONSTRUCTION EQUIPMENT



GRAPHS

