



CONSTRUCTION EQUIPMENT

13078-IAA VOLVO L90G 623078 - DIESEL ENGINE



Sample No: VCP409382
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 13078-IAA



SAMPLE INFORMATION

Sample Number	VCP409382	VCP324877	VCP238532	VCP211542
Sample Date	16 Aug 2023	02 Jun 2021	08 Apr 2019	28 Feb 2018
Machine Hours	12335	10547	7519	5441
Oil Hours	500	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

McClung-Logan Virginia LLC- RICHMOND
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OIL CONDITION

Visc @ 100°C	cSt	13.8	14.3	14.26	13.89
Base Number (BN)	mg KOH/g	5.8	---	---	---
Oxidation (PA)	%	60	82	69	68



CONTAMINATION

Soot %	%	0.5	0.5	0.3	0.1
Nitration (PA)	%	82	97	77	58
Sulfation (PA)	%	57	62	56	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	6	8
Sodium	ppm	3	2	3	2
Potassium	ppm	<1	<1	9	1



WEAR METALS

Iron	ppm	16	14	9	8
Copper	ppm	2	2	<1	<1
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	7	6	3	3
Chromium	ppm	<1	1	<1	1
Molybdenum	ppm	78	47	46	41
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	2086	1357	1598	1578
Magnesium	ppm	138	685	675	464
Zinc	ppm	1166	916	1190	768
Phosphorus	ppm	939	714	1074	706
Barium	ppm	0	0	0	0
Boron	ppm	29	47	26	39

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.

Depot: VOLVO8882
Unique No: 10615390
Signed: Wes Davis
Report Date: 22 Aug 2023



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VOLVO GRAPHS

