



CONSTRUCTION EQUIPMENT

UPAP-PHOENIX SW1027118 330144 VOLVO L90G 617701 - DIESEL ENGINE



Sample No: VCE196220
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW1027118



SAMPLE INFORMATION

Sample Number	VCE196220	DJJ025952	DJJ0005911	DJJ024978
Sample Date	21 Dec 2023	10 May 2023	21 Jun 2022	10 Dec 2021
Machine Hours	11267	10493	9277	8767
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	13.7	12.8	12.5
Base Number (BN)	mg KOH/g	8.4	8.1	10.0	10.6
Oxidation (PA)	%	66	62	78	82

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. 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 %	%	0.4	0.4	0.2	0.2
Nitration (PA)	%	69	68	55	54
Sulfation (PA)	%	53	52	59	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	3.8	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	4
Sodium	ppm	<1	2	2	4
Potassium	ppm	0	<1	0	0



WEAR METALS

Iron	ppm	8	9	6	5
Copper	ppm	<1	1	<1	<1
Lead	ppm	<1	0	<1	<1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	5	4	4	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	55	59	40	38
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	<1	4
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1281	1126	1646	1777
Magnesium	ppm	895	964	486	504
Zinc	ppm	1302	1271	1137	1048
Phosphorus	ppm	1082	1016	895	939
Barium	ppm	0	0	0	0
Boron	ppm	8	2	48	46

Depot: UPAPPHO
Unique No: 10808091
Signed: Doug Bogart
Report Date: 08 Jan 2024



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GRAPHS

