



CONSTRUCTION EQUIPMENT

620781 STONE CO VOLVO L220H 3280 - DIESEL ENGINE



Sample No: VCP431992
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 620781 STONE CO



SAMPLE INFORMATION

Sample Number	VCP431992	VCP418195	VCP414120	VCP426806
Sample Date	26 Oct 2023	23 Aug 2023	22 Jun 2023	18 Apr 2023
Machine Hours	7008	6479	6010	5504
Oil Hours	500	500	510	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	14.1	14.1	13.9
Base Number (BN)	mg KOH/g	9.1	8.5	9.4	8.9
Oxidation (PA)	%	57	54	57	55

CONTAMINATION

Soot %	%	0.3	0.3	0.3	0.3
Nitration (PA)	%	57	58	58	54
Sulfation (PA)	%	53	51	53	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	2	2	2
Sodium	ppm	0	2	<1	<1
Potassium	ppm	<1	<1	1	0

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 acceptable for the time in service.

WEAR METALS

Iron	ppm	<1	3	2	4
Copper	ppm	0	2	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	61	64	60	59
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1060	1349	1100	1069
Magnesium	ppm	938	833	1003	985
Zinc	ppm	1258	1318	1341	1316
Phosphorus	ppm	1021	1069	1053	1042
Barium	ppm	0	0	14	0
Boron	ppm	15	9	2	0

Depot: VOLVO2990
Unique No: 10740611
Signed: Don Baldrige
Report Date: 16 Nov 2023



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GRAPHS

