



CONSTRUCTION EQUIPMENT

620708 VOLVO L90G 617541 - DIESEL ENGINE



Sample No: VCP431428
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 620708



SAMPLE INFORMATION

Sample Number	VCP431428	VCP328896	VCP313302	VCP217757
Sample Date	28 Nov 2023	29 Oct 2021	13 May 2021	01 Sep 2017
Machine Hours	9073	7203	6753	3080
Oil Hours	500	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

KAMPS PALLET
 2900 PEACH RIDGE NW
 GRAND RAPIDS, MI
 US 49534
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 100°C	cSt	14.0	12.8	13.0	14.77
Base Number (BN)	mg KOH/g	10.1	11.2	---	---
Oxidation (PA)	%	65	81	81	52

T: (616)453-9676
 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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1.5	0.6	0.7	0.5
Nitration (PA)	%	72	68	74	58
Sulfation (PA)	%	58	63	65	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	5	6
Sodium	ppm	0	2	2	6
Potassium	ppm	1	0	<1	<1

WEAR METALS

Iron	ppm	33	16	16	16
Copper	ppm	<1	<1	1	2
Lead	ppm	0	<1	<1	0
Tin	ppm	0	<1	<1	7
Aluminum	ppm	7	7	10	7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	57	39	34	46
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1171	1743	1550	1291
Magnesium	ppm	780	533	491	780
Zinc	ppm	1145	1126	1057	993
Phosphorus	ppm	960	952	865	877
Barium	ppm	3	0	0	0
Boron	ppm	10	32	83	20

Depot: KAMGRAMI
Unique No: 10778842
Signed: Don Baldrige
Report Date: 11 Dec 2023



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GRAPHS

