



CONSTRUCTION EQUIPMENT

525703 VOLVO L220H 3 194 - DIESEL ENGINE



Sample No: VCP428558
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 525703



SAMPLE INFORMATION

Sample Number	VCP428558	VCP405626	VCP397117	VCP361710
Sample Date	05 Apr 2024	17 May 2023	13 Jan 2023	28 Jul 2022
Machine Hours	9203	7697	7191	6398
Oil Hours	1376	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

CALLANAN
 RT 32 677 FLATBUSH RD
 EAST KINGSTON, NY
 US 12401
 Contact:

OIL CONDITION

Visc @ 100°C	cSt	12.3	12.4	12.1	12.7
Base Number (BN)	mg KOH/g	8.1	9.5	8.4	10.3
Oxidation (PA)	%	73	80	76	88

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	57	58	71	73
Sulfation (PA)	%	59	61	58	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	5	9	5
Sodium	ppm	2	0	0	0
Potassium	ppm	3	1	1	2

WEAR METALS

Iron	ppm	16	6	9	7
Copper	ppm	3	1	2	4
Lead	ppm	2	<1	1	<1
Tin	ppm	2	<1	1	<1
Aluminum	ppm	3	<1	2	2
Chromium	ppm	1	<1	<1	0
Molybdenum	ppm	52	45	52	43
Nickel	ppm	2	<1	<1	0
Titanium	ppm	1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0

ADDITIVES

Calcium	ppm	1149	1602	1682	1563
Magnesium	ppm	759	472	518	495
Zinc	ppm	1112	1067	1130	1041
Phosphorus	ppm	855	889	892	862
Barium	ppm	<1	0	0	2
Boron	ppm	0	47	28	37

Depot: CALEAS
Unique No: 10967650
Signed: Don Baldrige
Report Date: 11 Apr 2024



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GRAPHS

