



CONSTRUCTION EQUIPMENT

SWA40136-10 VOLVO L220H 3195 - DIESEL ENGINE



Sample No: VCP429285
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: SWA40136-10



SAMPLE INFORMATION

Sample Number	VCP429285	VCP419114	VCP390231	VCP374138
Sample Date	29 Oct 2023	21 Aug 2023	01 Nov 2022	20 Jun 2022
Machine Hours	11063	10636	8642	7636
Oil Hours	0	0	0	1100
Oil Changed	Not Chngd	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

CALLANAN INDUSTRIES
 93 SULLIVAN RD
 MONTICELLO, NY
 US 12701
 Contact: Service Manager

OIL CONDITION

Visc @ 100°C	cSt	12.8	12.7	12.9	12.6
Base Number (BN)	mg KOH/g	9.3	6.9	9.2	8.3
Oxidation (PA)	%	82	84	92	85

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 %	%	0.3	0.4	0.6	0.4
Nitration (PA)	%	66	77	87	82
Sulfation (PA)	%	62	61	67	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	15	10	11
Sodium	ppm	2	3	2	2
Potassium	ppm	2	<1	1	0

WEAR METALS

Iron	ppm	9	20	13	15
Copper	ppm	2	3	3	9
Lead	ppm	<1	4	2	3
Tin	ppm	0	<1	<1	2
Aluminum	ppm	2	6	4	4
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	38	41	42	41
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	1564	1610	1693	1518
Magnesium	ppm	485	542	504	534
Zinc	ppm	1078	1083	1109	1123
Phosphorus	ppm	947	917	904	852
Barium	ppm	0	0	0	0
Boron	ppm	27	17	19	19

Depot: CALMONNY
Unique No: 10803549
Signed: Wes Davis
Report Date: 26 Dec 2023



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GRAPHS

