



CONSTRUCTION EQUIPMENT

S1602 AGROMIN SAC VOLVO L110H 632149 - DIESEL ENGINE



Sample No: VCP442960
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S1602 AGROMIN SAC



SAMPLE INFORMATION

Sample Number	VCP442960	VCP424185	VCP426747	VCP375435
Sample Date	25 Jan 2024	22 Sep 2023	25 May 2023	05 Oct 2022
Machine Hours	6500	5459	4640	3057
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
 8594 FRUITRIDGE ROAD
 SACRAMENTO, CA
 US 95826
 Contact: RAY KRANZUSCH
 ray.kranzusch@vcesvolvo.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	13.8	13.5	13.4	13.7
Base Number (BN)	mg KOH/g	9.0	9.1	10.2	11.5
Oxidation (PA)	%	97	96	89	95

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 %	%	0.5	0.5	0.4	0.5
Nitration (PA)	%	85	83	73	77
Sulfation (PA)	%	66	65	65	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	11	9	9
Sodium	ppm	0	3	3	2
Potassium	ppm	1	0	<1	<1



WEAR METALS

Iron	ppm	19	14	12	19
Copper	ppm	3	2	<1	6
Lead	ppm	3	2	1	1
Tin	ppm	1	1	<1	2
Aluminum	ppm	6	5	6	7
Chromium	ppm	1	1	1	1
Molybdenum	ppm	48	42	42	41
Nickel	ppm	1	<1	0	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1862	1790	1760	1834
Magnesium	ppm	582	553	525	525
Zinc	ppm	1266	1207	1235	1227
Phosphorus	ppm	1030	968	1006	1008
Barium	ppm	0	0	0	0
Boron	ppm	35	23	30	26

Depot: VOLVO4485
Unique No: 10872644
Signed: Wes Davis
Report Date: 12 Feb 2024



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GRAPHS

