



CONSTRUCTION EQUIPMENT

SWO-066738 VOLVO A45G 352799 - DIESEL ENGINE



Sample No: VCP429588
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No: SWO-066738



SAMPLE INFORMATION

Sample Number	VCP429588	VCP417787	VCP405254	VCP368390
Sample Date	25 Oct 2023	12 Jul 2023	29 Mar 2023	16 Nov 2022
Machine Hours	4451	3946	3445	2976
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.7	13.2	12.8
Base Number (BN)	mg KOH/g	9.4	10.1	10.5	11.0
Oxidation (PA)	%	74	77	74	84



CONTAMINATION

Soot %	%	0.3	0.3	0.1	0.3
Nitration (PA)	%	52	58	43	66
Sulfation (PA)	%	59	60	60	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	5	6	6
Sodium	ppm	2	1	<1	1
Potassium	ppm	<1	0	2	2



WEAR METALS

Iron	ppm	3	7	3	8
Copper	ppm	2	3	6	123
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	<1	0	1
Aluminum	ppm	2	2	<1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	39	44	40	42
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1624	1769	1746	1707
Magnesium	ppm	507	562	565	513
Zinc	ppm	1117	1189	1000	1098
Phosphorus	ppm	936	984	811	925
Barium	ppm	0	0	0	2
Boron	ppm	45	57	68	44

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.

Depot: SAIBIR
Unique No: 10714607
Signed: Don Baldrige
Report Date: 31 Oct 2023



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GRAPHS

