



CONSTRUCTION EQUIPMENT

VOLVO A45G 342095 - DIESEL ENGINE



Sample No: VCP414365
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP414365	VCP402770	VCP383838	VCP365247
Sample Date	26 Oct 2023	02 May 2023	13 Dec 2022	18 Aug 2022
Machine Hours	8727	7961	7510	6994
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.7	12.6	12.9
Base Number (BN)	mg KOH/g	10.2	9.0	8.8	11.5
Oxidation (PA)	%	80	76	59	85

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

Soot %	%	0.2	0.3	0.1	0.2
Nitration (PA)	%	51	56	48	60
Sulfation (PA)	%	62	56	57	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	6	4
Sodium	ppm	6	3	0	2
Potassium	ppm	2	<1	2	1



WEAR METALS

Iron	ppm	6	10	6	4
Copper	ppm	<1	<1	1	<1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	2	1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	46	42	44	41
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1808	1836	1800	1616
Magnesium	ppm	541	539	490	462
Zinc	ppm	1184	1095	1137	1072
Phosphorus	ppm	1105	966	979	904
Barium	ppm	5	0	<1	0
Boron	ppm	54	40	53	50

Depot: SAIBIR
Unique No: 10728559
Signed: Sean Felton
Report Date: 08 Nov 2023



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GRAPHS

