



CONSTRUCTION EQUIPMENT

VOLVO A45G 352799 - DIESEL ENGINE



Sample No: VCP447605
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP447605	VCP445325	VCP429588	VCP417787
Sample Date	10 Jun 2024	27 Feb 2024	25 Oct 2023	12 Jul 2023
Machine Hours	5435	4930	4451	3946
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.8	12.7	12.7
Base Number (BN)	mg KOH/g	10.1	10.2	9.4	10.1
Oxidation (PA)	%	76	78	74	77

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	0.2	0.3	0.3
Nitration (PA)	%	51	54	52	58
Sulfation (PA)	%	59	59	59	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	8	5
Sodium	ppm	<1	2	2	1
Potassium	ppm	1	<1	<1	0



WEAR METALS

Iron	ppm	5	7	3	7
Copper	ppm	2	4	2	3
Lead	ppm	<1	1	<1	0
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	44	40	39	44
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1629	1623	1624	1769
Magnesium	ppm	493	497	507	562
Zinc	ppm	1090	1073	1117	1189
Phosphorus	ppm	891	929	936	984
Barium	ppm	0	0	0	0
Boron	ppm	70	53	45	57

Depot: SAIBIR
Unique No: 11073557
Signed: Sean Felton
Report Date: 13 Jun 2024



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GRAPHS

