



CONSTRUCTION EQUIPMENT

VOLVO A45G 352736 - DIESEL ENGINE



Sample No: VCP450770
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP450770	VCP444467	VCP431952	VCP425026
Sample Date	06 Jun 2024	27 Feb 2024	25 Oct 2023	01 Aug 2023
Machine Hours	5397	4888	4412	7719
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	12.6	12.7	12.91	12.7
Base Number (BN)	mg KOH/g	9.5	10.0	10.4	10.2
Oxidation (PA)	%	72	78	79	81

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.4	0.4
Nitration (PA)	%	53	54	55	58
Sulfation (PA)	%	57	59	61	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	9	6
Sodium	ppm	2	2	<1	3
Potassium	ppm	<1	<1	2	<1



WEAR METALS

Iron	ppm	5	5	9	7
Copper	ppm	<1	<1	2	3
Lead	ppm	<1	2	<1	1
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	1	1	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	44	38	56	42
Nickel	ppm	0	1	2	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1846	1628	2146	1772
Magnesium	ppm	514	490	675	540
Zinc	ppm	1141	1072	1481	1195
Phosphorus	ppm	974	943	1323	983
Barium	ppm	0	0	0	0
Boron	ppm	62	50	51	39

Depot: SAIBIR
Unique No: 11074813
Signed: Sean Felton
Report Date: 14 Jun 2024



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GRAPHS

