



CONSTRUCTION EQUIPMENT

SWO-070936 VOLVO A45G 352708 - DIESEL ENGINE



Sample No: VCP436273
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-070936



SAMPLE INFORMATION

Sample Number	VCP436273	VCP431076	VCP433248	VCP424300
Sample Date	04 Apr 2024	20 Nov 2023	11 Sep 2023	06 Jul 2023
Machine Hours	5405	4925	4418	3920
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.9	12.0	12.7
Base Number (BN)	mg KOH/g	9.0	9.8	7.1	10.3
Oxidation (PA)	%	74	75	72	79

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	0.1	0.4	0.2
Nitration (PA)	%	61	53	82	58
Sulfation (PA)	%	58	58	62	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.3	<1.0
Silicon	ppm	5	4	7	4
Sodium	ppm	2	2	6	2
Potassium	ppm	2	0	2	1



WEAR METALS

Iron	ppm	6	3	12	6
Copper	ppm	2	<1	5	<1
Lead	ppm	2	0	2	1
Tin	ppm	2	<1	3	<1
Aluminum	ppm	2	<1	6	2
Chromium	ppm	1	0	<1	0
Molybdenum	ppm	41	43	26	40
Nickel	ppm	2	<1	3	2
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1599	1584	1505	1654
Magnesium	ppm	499	571	668	476
Zinc	ppm	1116	1177	948	1039
Phosphorus	ppm	967	892	738	844
Barium	ppm	<1	0	0	0
Boron	ppm	59	51	44	54

Depot: SAIBIR
Unique No: 10967644
Signed: Don Baldrige
Report Date: 11 Apr 2024



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GRAPHS

