



CONSTRUCTION EQUIPMENT

590794 SUWANNEE VOLVO A40G 352940 - DIESEL ENGINE



Sample No: VCP447366
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 590794 SUWANNEE



SAMPLE INFORMATION

Sample Number	VCP447366	VCP440288	VCP411711	VCP399294
Sample Date	19 Jun 2024	26 Sep 2023	30 May 2023	20 Dec 2022
Machine Hours	9067	6962	5463	3441
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	13.4	12.6	12.9	12.9
Base Number (BN)	mg KOH/g	9.0	8.3	7.0	10
Oxidation (PA)	%	57	88	92	80

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	0.3	0.5	0.2
Nitration (PA)	%	52	79	95	59
Sulfation (PA)	%	51	61	65	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	5	6	5
Sodium	ppm	1	11	3	<1
Potassium	ppm	0	1	0	2



WEAR METALS

Iron	ppm	4	12	16	5
Copper	ppm	<1	4	2	<1
Lead	ppm	0	1	1	<1
Tin	ppm	0	1	1	<1
Aluminum	ppm	<1	3	2	<1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	57	47	48	43
Nickel	ppm	0	<1	1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1187	1701	1830	1700
Magnesium	ppm	924	464	576	497
Zinc	ppm	1271	1146	1162	1093
Phosphorus	ppm	1064	942	926	932
Barium	ppm	0	0	0	1
Boron	ppm	2	16	15	50

Depot: VOLVO0096
Unique No: 11090608
Signed: Don Baldrige
Report Date: 25 Jun 2024



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GRAPHS

