



CONSTRUCTION EQUIPMENT

SWO-068559 VOLVO A40G 341023 - DIESEL ENGINE



Sample No: VCP447532
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-068559



SAMPLE INFORMATION

Sample Number	VCP447532	VCP435426	VCP408953	VCP396176
Sample Date	27 Dec 2023	20 Sep 2023	13 Jun 2023	07 Mar 2023
Machine Hours	8960	8472	7952	7404
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	ATTENTION

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.2	12.3	12.4
Base Number (BN)	mg KOH/g	9.4	9.3	9.0	10.4
Oxidation (PA)	%	73	78	83	78

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 %	%	0.2	0.2	0.2	0.1
Nitration (PA)	%	58	55	60	58
Sulfation (PA)	%	57	58	60	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.6
Silicon	ppm	8	10	7	7
Sodium	ppm	2	2	13	2
Potassium	ppm	0	2	0	0



WEAR METALS

Iron	ppm	9	12	10	8
Copper	ppm	1	<1	0	0
Lead	ppm	1	1	1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	4	3	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	43	43	42
Nickel	ppm	<1	1	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1482	1755	1544	1624
Magnesium	ppm	607	489	513	530
Zinc	ppm	1148	1144	892	1096
Phosphorus	ppm	983	979	756	890
Barium	ppm	0	0	0	0
Boron	ppm	35	43	51	55

Depot: SAIBIR

Unique No: 10809265

Signed: Don Baldrige

Report Date: 03 Jan 2024



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VOLVO GRAPHS

