



CONSTRUCTION EQUIPMENT

SWO-069775 VOLVO A60H 350021 - DIESEL ENGINE



Sample No: VCP444465
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-069775



SAMPLE INFORMATION

Sample Number	VCP444465	VCP427434	VCP413101	VCP401091
Sample Date	15 Feb 2024	25 Sep 2023	12 Jun 2023	03 Mar 2023
Machine Hours	7887	7398	6877	6375
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.8	12.8	12.7
Base Number (BN)	mg KOH/g	7.4	10.1	9.9	11.1
Oxidation (PA)	%	66	80	84	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 %	%	0.2	0.3	0.3	0.2
Nitration (PA)	%	73	58	58	48
Sulfation (PA)	%	52	61	62	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	6
Sodium	ppm	2	4	1	3
Potassium	ppm	0	<1	0	0



WEAR METALS

Iron	ppm	5	4	6	5
Copper	ppm	1	<1	0	<1
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	4	3	3	1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	100	43	42	38
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1447	1851	1616	1617
Magnesium	ppm	632	554	503	495
Zinc	ppm	902	1220	1072	1033
Phosphorus	ppm	786	997	906	872
Barium	ppm	0	0	0	0
Boron	ppm	74	51	60	59

Depot: SAIBIR
Unique No: 10899512
Signed: Jonathan Hester
Report Date: 28 Feb 2024



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GRAPHS

