



CONSTRUCTION EQUIPMENT

SWO-071762 VOLVO A60 340104 - DIESEL ENGINE



Sample No: VCP447627
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-071762



SAMPLE INFORMATION

Sample Number	VCP447627	VCP428821	VCP411749	VCP405921
Sample Date	15 May 2024	30 Nov 2023	24 Aug 2023	17 Apr 2023
Machine Hours	9718	9185	8689	8086
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	12.5	12.9	12.9	13.0
Base Number (BN)	mg KOH/g	9.9	9.5	9.8	8.9
Oxidation (PA)	%	80	72	82	75

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	0.3	0.5	0.7
Nitration (PA)	%	54	61	66	69
Sulfation (PA)	%	61	57	63	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	14	8	6	7
Sodium	ppm	6	4	2	5
Potassium	ppm	3	2	1	2



WEAR METALS

Iron	ppm	12	10	9	12
Copper	ppm	2	<1	<1	2
Lead	ppm	2	0	<1	<1
Tin	ppm	1	0	<1	<1
Aluminum	ppm	4	5	4	3
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	42	63	40	46
Nickel	ppm	1	<1	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1695	1877	1587	1543
Magnesium	ppm	495	824	485	652
Zinc	ppm	1095	1454	1043	1075
Phosphorus	ppm	971	1155	882	877
Barium	ppm	0	2	0	0
Boron	ppm	57	36	32	22

Depot: SAIBIR
Unique No: 11035299
Signed: Sean Felton
Report Date: 21 May 2024



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GRAPHS

