



CONSTRUCTION EQUIPMENT

SPM646194-10 VOLVO A40G 352676 - DIESEL ENGINE



Sample No: VCP439024
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM646194-10



SAMPLE INFORMATION

Sample Number	VCP439024	VCP412500	VCP353643	VCP343809
Sample Date	12 Dec 2023	05 Sep 2023	08 Jun 2022	21 Oct 2021
Machine Hours	4858	4379	2274	991
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	11.3	12.6	12.8
Base Number (BN)	mg KOH/g	9.8	6.4	6.6	---
Oxidation (PA)	%	77	63	89	64

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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	0.1
Nitration (PA)	%	59	78	98	67
Sulfation (PA)	%	60	57	69	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.4	2.9	<1.0	<1.0
Silicon	ppm	4	4	6	6
Sodium	ppm	2	9	2	2
Potassium	ppm	1	10	0	2



WEAR METALS

Iron	ppm	3	9	12	6
Copper	ppm	2	13	57	36
Lead	ppm	<1	2	2	<1
Tin	ppm	<1	2	3	0
Aluminum	ppm	2	3	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	50	54	44	24
Nickel	ppm	2	2	5	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1551	1665	1623	1972
Magnesium	ppm	526	701	407	314
Zinc	ppm	1085	1126	979	1013
Phosphorus	ppm	917	838	729	853
Barium	ppm	0	0	0	0
Boron	ppm	41	24	14	21

Depot: VOLVO0090
Unique No: 10795619
Signed: Wes Davis
Report Date: 22 Dec 2023



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GRAPHS

