



CONSTRUCTION EQUIPMENT

12585 VOLVO A30D 12129 - DIESEL ENGINE



Sample No: VCP454452
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 12585



SAMPLE INFORMATION

Sample Number	VCP454452	VCP428836	VCP434170	VCP416379
Sample Date	02 May 2024	18 Mar 2024	26 Oct 2023	07 Jun 2023
Machine Hours	11840	11733	11535	11260
Oil Hours	500	0	250	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

DYER QUARRY
P.O. BOX 188, 1275 ROCK HOLLOW ROAD
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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.7	12.4	12.6
Base Number (BN)	mg KOH/g	9.7	8.8	9.9	7.8
Oxidation (PA)	%	71	58	76	42

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.3	0.2
Nitration (PA)	%	48	51	56	55
Sulfation (PA)	%	58	52	60	46
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	7	11	18
Sodium	ppm	3	2	1	0
Potassium	ppm	0	2	1	2

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.

WEAR METALS

Iron	ppm	3	4	6	5
Copper	ppm	<1	1	1	2
Lead	ppm	0	<1	0	<1
Tin	ppm	0	1	<1	<1
Aluminum	ppm	<1	2	3	<1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	35	25	37	14
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	2	3	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	<1	<1	<1	0

ADDITIVES

Calcium	ppm	1876	1790	1655	2197
Magnesium	ppm	451	316	445	93
Zinc	ppm	1089	1058	1117	1048
Phosphorus	ppm	947	907	958	911
Barium	ppm	0	0	7	0
Boron	ppm	51	28	54	11

Depot: DYEBIR
Unique No: 11029610
Signed: Sean Felton
Report Date: 16 May 2024



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GRAPHS

