



CONSTRUCTION EQUIPMENT

VOLVO A30G 742411 - DIESEL ENGINE



Sample No: VCP439108
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP439108	VCP356914	VCP303611	VCP296001
Sample Date	22 Feb 2024	05 Apr 2022	21 Apr 2021	22 Dec 2020
Machine Hours	5942	4282	3024	2608
Oil Hours	0	1000	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	12.7	16.7	11.7	11.7
Base Number (BN)	mg KOH/g	5.9	6.5	---	---
Oxidation (PA)	%	78	94	85	69

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 %	%	0.6	0.8	0.2	0.4
Nitration (PA)	%	79	102	63	67
Sulfation (PA)	%	63	72	65	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	3	4	6
Sodium	ppm	6	3	2	2
Potassium	ppm	0	8	<1	0



WEAR METALS

Iron	ppm	64	14	6	8
Copper	ppm	3	2	1	4
Lead	ppm	0	2	<1	2
Tin	ppm	2	2	<1	<1
Aluminum	ppm	2	1	0	2
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	45	26	39	29
Nickel	ppm	0	2	0	1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	2	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1674	1058	1641	1564
Magnesium	ppm	391	325	466	562
Zinc	ppm	946	685	1020	976
Phosphorus	ppm	830	599	914	828
Barium	ppm	0	0	0	0
Boron	ppm	18	9	46	42

Depot: VOLVO0096
Unique No: 10896447
Signed: Wes Davis
Report Date: 25 Feb 2024



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VOLVO GRAPHS

