



CONSTRUCTION EQUIPMENT

VOLVO A45G 352808 - DIESEL ENGINE



Sample No: VCP441177
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP441177	VCP412141	VCP420585	VCP344115
Sample Date	17 Feb 2024	22 Aug 2023	25 Jul 2023	23 Jan 2022
Machine Hours	4096	3368	3280	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	12.6	12.8	12.7	12.5
Base Number (BN)	mg KOH/g	9.0	10.2	9.6	11.3
Oxidation (PA)	%	79	73	78	83

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	0.2	0.7	0.2
Nitration (PA)	%	67	44	68	57
Sulfation (PA)	%	62	58	63	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	5	9
Sodium	ppm	2	1	3	2
Potassium	ppm	0	1	0	<1



WEAR METALS

Iron	ppm	15	3	13	9
Copper	ppm	8	12	94	2
Lead	ppm	<1	0	2	<1
Tin	ppm	<1	<1	1	1
Aluminum	ppm	4	2	3	4
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	53	47	47	45
Nickel	ppm	2	0	2	2
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1819	1698	1767	1733
Magnesium	ppm	554	546	554	523
Zinc	ppm	1218	1167	1127	1046
Phosphorus	ppm	1011	955	921	954
Barium	ppm	<1	0	0	0
Boron	ppm	34	70	34	58

Depot: VOLVO0090
Unique No: 10887540
Signed: Wes Davis
Report Date: 21 Feb 2024



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GRAPHS

