



CONSTRUCTION EQUIPMENT

620889 VOLVO A45G 352039 - DIESEL ENGINE



Sample No: VCP435112
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 620889



SAMPLE INFORMATION

Sample Number	VCP435112	VCP405095	VCP381257	VCP377486
Sample Date	17 Oct 2023	18 Mar 2023	29 Oct 2022	23 Apr 2022
Machine Hours	8196	6836	6327	5423
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	MARGINAL	NORMAL	NORMAL

ORANGE COUNTY SOLID WASTE
 5901 YOUNG PINE ROAD
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 US 32829
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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.3	12.9	13.0
Base Number (BN)	mg KOH/g	8.5	9.5	9.6	10.2
Oxidation (PA)	%	87	87	95	92

CONTAMINATION

Soot %	%	0.7	0.5	0.7	0.6
Nitration (PA)	%	83	80	93	81
Sulfation (PA)	%	64	64	70	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	3.5	<1.0	<1.0
Silicon	ppm	6	7	6	5
Sodium	ppm	2	3	4	<1
Potassium	ppm	2	0	1	0

WEAR METALS

Iron	ppm	12	12	11	9
Copper	ppm	2	2	2	4
Lead	ppm	3	1	2	2
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	5	3	3	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	46	42	41	41
Nickel	ppm	1	1	<1	2
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1713	1721	1691	1831
Magnesium	ppm	464	527	488	547
Zinc	ppm	1150	1122	1098	1124
Phosphorus	ppm	933	919	904	978
Barium	ppm	<1	0	0	0
Boron	ppm	17	28	16	20

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.

Depot: ORAORL
Unique No: 10701740
Signed: Wes Davis
Report Date: 20 Oct 2023



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GRAPHS

