



CONSTRUCTION EQUIPMENT

701481 VOLVO A45G 352411 - DIESEL ENGINE



Sample No: VCP446497
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 701481



SAMPLE INFORMATION

Sample Number	VCP446497	VCP430739	VCP427066	VCP381256
Sample Date	10 Apr 2024	22 Nov 2023	19 Jun 2023	29 Oct 2022
Machine Hours	6878	6275	5591	4395
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ORANGE COUNTY SOLID WASTE
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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.2	13.7	13.3
Base Number (BN)	mg KOH/g	7.9	7.1	6.3	8.4
Oxidation (PA)	%	89	93	96	98

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 %	%	0.4	0.5	0.7	0.7
Nitration (PA)	%	88	97	106	107
Sulfation (PA)	%	65	68	73	71
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	6	5
Sodium	ppm	2	3	6	5
Potassium	ppm	0	<1	3	1



WEAR METALS

Iron	ppm	9	10	20	13
Copper	ppm	1	4	20	4
Lead	ppm	<1	3	7	2
Tin	ppm	2	1	2	1
Aluminum	ppm	1	2	<1	2
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	44	46	52	46
Nickel	ppm	1	1	4	1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2005	1832	2000	1815
Magnesium	ppm	510	414	396	471
Zinc	ppm	1208	1149	1228	1152
Phosphorus	ppm	986	962	971	940
Barium	ppm	0	0	<1	0
Boron	ppm	26	20	16	15

Depot: ORAORL
Unique No: 10980225
Signed: Wes Davis
Report Date: 17 Apr 2024



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GRAPHS

