



CONSTRUCTION EQUIPMENT

SPM606023 VOLVO L150H 6945 - DIESEL ENGINE



Sample No: VCP432766
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM606023



SAMPLE INFORMATION

Sample Number	VCP432766	VCP408209	VCP386610	VCP379843
Sample Date	05 Sep 2023	29 Mar 2023	07 Jan 2023	01 Nov 2022
Machine Hours	6908	5534	4991	4416
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	ABNORMAL	NORMAL

ORANGE COUNTY SOLID WASTE
 5901 YOUNG PINE ROAD
 ORLANDO, FL
 US 32829
 Contact: MICHAEL BEEBE
 michael.beebe@ocfl.net
 T: (407)836-6652
 F: (407)836-6650



OIL CONDITION

Visc @ 100°C	cSt	12.6	12.8	13.0	13.1
Base Number (BN)	mg KOH/g	8.3	9.2	10.1	10.9
Oxidation (PA)	%	86	64	85	90



CONTAMINATION

Soot %	%	0.3	0.2	0.2	0.2
Nitration (PA)	%	68	61	64	69
Sulfation (PA)	%	61	55	62	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	▲ 24	16	▲ 26	23
Sodium	ppm	5	<1	3	4
Potassium	ppm	<1	<1	0	0

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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	7	4	6	6
Copper	ppm	3	2	1	2
Lead	ppm	2	<1	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	4	0	<1	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	45	58	43	43
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1794	1133	1681	1690
Magnesium	ppm	523	890	538	506
Zinc	ppm	1122	1241	1148	1056
Phosphorus	ppm	947	949	917	889
Barium	ppm	0	0	0	0
Boron	ppm	20	4	31	29

Depot: ORAORL
Unique No: 10648379
Signed: Sean Felton
Report Date: 19 Sep 2023



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VOLVO GRAPHS

