



CONSTRUCTION EQUIPMENT

CITY OF VA BEACH VOLVO L90H 624724 - DIESEL ENGINE



Sample No: VCP426673
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: CITY OF VA BEACH



SAMPLE INFORMATION

Sample Number	VCP426673	VCP349801	VCP286378	VCP276495
Sample Date	06 Sep 2023	23 Mar 2022	26 Jan 2021	19 May 2020
Machine Hours	0	2881	1732	1072
Oil Hours	0	500	602	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.8	14.0	13.9	13.6
Base Number (BN)	mg KOH/g	9.0	10.0	---	---
Oxidation (PA)	%	103	81	94	72

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 %	%	0.7	0.3	0.4	0.3
Nitration (PA)	%	113	74	93	85
Sulfation (PA)	%	68	60	65	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	15	7	11	8
Sodium	ppm	3	2	5	3
Potassium	ppm	4	2	2	1



WEAR METALS

Iron	ppm	26	16	30	23
Copper	ppm	2	1	2	3
Lead	ppm	2	<1	<1	0
Tin	ppm	1	1	2	2
Aluminum	ppm	7	4	12	6
Chromium	ppm	2	1	2	2
Molybdenum	ppm	55	46	38	16
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1755	1682	1766	1410
Magnesium	ppm	561	692	518	638
Zinc	ppm	1220	1194	945	802
Phosphorus	ppm	974	1018	810	727
Barium	ppm	10	0	0	0
Boron	ppm	25	33	24	34

Depot: VOLVO0264
Unique No: 10807936
Signed: Don Baldrige
Report Date: 29 Dec 2023



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GRAPHS

