



CONSTRUCTION EQUIPMENT

702925 VOLVO L220H 3368 - DIESEL ENGINE



Sample No: VCP449795
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 702925



SAMPLE INFORMATION

Sample Number	VCP449795	VCP445981	VCP432381	VCP415547
Sample Date	24 Apr 2024	14 Feb 2024	12 Dec 2023	18 Jul 2023
Machine Hours	5581	5101	4672	3780
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

BLUE GOOSE GROWERS
 16059 W ORANGE AVE
 FT PIERCE, FL
 US 34945
 Contact: SERVICE MANAGER



OIL CONDITION

Visc @ 100°C	cSt	13.0	12.7	12.9	12.9
Base Number (BN)	mg KOH/g	10.0	9.8	8.7	9.2
Oxidation (PA)	%	81	80	85	81

T: (772)461-3020
 F:

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 %	%	0.1	0.1	0.3	0.3
Nitration (PA)	%	56	58	75	68
Sulfation (PA)	%	61	60	61	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	5
Sodium	ppm	1	<1	2	3
Potassium	ppm	2	2	2	0



WEAR METALS

Iron	ppm	4	4	5	6
Copper	ppm	1	1	2	1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	<1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	39	39	39	46
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1598	1455	1703	1785
Magnesium	ppm	498	480	508	580
Zinc	ppm	1111	1026	1145	1171
Phosphorus	ppm	950	919	901	983
Barium	ppm	0	10	0	0
Boron	ppm	43	31	17	26

Depot: BLUFOR
Unique No: 11004809
Signed: Wes Davis
Report Date: 01 May 2024



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GRAPHS

