



CONSTRUCTION EQUIPMENT

CITRUS COUNTY VOLVO L110H 632392 - DIESEL ENGINE



Sample No: VCP443773
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: CITRUS COUNTY



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SAMPLE INFORMATION

Sample Number	VCP443773	VCP441858	VCP425883	VCP406812
Sample Date	21 May 2024	18 Oct 2023	26 Jul 2023	01 May 2023
Machine Hours	3624	2613	2132	1543
Oil Hours	0	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.3	12.6	13.0	12.7
Base Number (BN)	mg KOH/g	9.8	10.5	9.8	10.4
Oxidation (PA)	%	59	76	77	78



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.4	0.4	0.3
Nitration (PA)	%	53	54	57	57
Sulfation (PA)	%	51	59	59	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	5	5
Sodium	ppm	1	1	2	0
Potassium	ppm	<1	2	2	2



WEAR METALS

Iron	ppm	7	9	12	12
Copper	ppm	1	2	3	3
Lead	ppm	<1	0	1	<1
Tin	ppm	<1	<1	2	<1
Aluminum	ppm	4	4	6	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	49	45	43	48
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1108	1570	1692	1641
Magnesium	ppm	818	475	527	472
Zinc	ppm	1153	1082	1183	1079
Phosphorus	ppm	980	907	963	899
Barium	ppm	0	7	0	0
Boron	ppm	6	40	32	42

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: VOLVO0093
Unique No: 11043998
Signed: Don Baldrige
Report Date: 23 May 2024



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GRAPHS

