



CONSTRUCTION EQUIPMENT

TMR-OKEECHOBEE 4098 434166 VOLVO L180H 4821 - DIESEL ENGINE



Sample No: VCP445664
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 4098



SAMPLE INFORMATION

Sample Number	VCP445664	VCP432915	VCP412620	VCP408001
Sample Date	12 Feb 2024	23 Jan 2024	21 Jul 2023	01 May 2023
Machine Hours	15531	15313	13817	13007
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

TRADEMARK METALS RECYCLING - OKEECHOBEE
 9800 NE 128TH AVE
 OKEECHOBEE, FL
 US 34972
 Contact: RYAN BOWDEN



OIL CONDITION

Visc @ 100°C	cSt	12.9	11.8	12.3	12.3
Base Number (BN)	mg KOH/g	9.7	6.6	9.7	10.4
Oxidation (PA)	%	74	92	81	79

T: (863)467-9810
 F: (863)467-9814

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	0.4	0.1	0.1
Nitration (PA)	%	48	80	55	48
Sulfation (PA)	%	58	63	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	2.6	<1.0	<1.0
Silicon	ppm	3	6	3	4
Sodium	ppm	2	3	3	3
Potassium	ppm	2	2	0	1



WEAR METALS

Iron	ppm	3	10	3	2
Copper	ppm	<1	2	3	<1
Lead	ppm	0	3	<1	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	1	3	<1	0
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	42	39	42	42
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1313	1578	1710	1598
Magnesium	ppm	568	481	495	507
Zinc	ppm	1039	1110	1108	1123
Phosphorus	ppm	829	937	907	941
Barium	ppm	11	0	0	0
Boron	ppm	30	14	38	44

Depot: TRAOKE
Unique No: 10882791
Signed: Wes Davis
Report Date: 16 Feb 2024



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GRAPHS

