



CONSTRUCTION EQUIPMENT

TMR-OKEECHOBEE 4099 463144 VOLVO L180H 4823 - DIESEL ENGINE



Sample No: VCP445661
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 4099



SAMPLE INFORMATION

Sample Number	VCP445661	VCP437425	VCP415911	VCP408042
Sample Date	12 Feb 2024	24 Jan 2024	18 Aug 2023	06 Jun 2023
Machine Hours	16032	15824	14630	14109
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	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	12.5	12.7	12.6
Base Number (BN)	mg KOH/g	10.0	8.2	9.8	10.1
Oxidation (PA)	%	77	85	72	83

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	0.3	0.1	0.1
Nitration (PA)	%	47	73	43	48
Sulfation (PA)	%	59	60	57	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	3
Sodium	ppm	1	2	<1	2
Potassium	ppm	2	<1	1	2

WEAR METALS

Iron	ppm	3	4	2	2
Copper	ppm	<1	<1	<1	0
Lead	ppm	0	1	0	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	1	2	<1	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	42	44	51	42
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1494	1640	1681	1687
Magnesium	ppm	513	543	489	522
Zinc	ppm	1095	1126	1083	1177
Phosphorus	ppm	826	957	918	960
Barium	ppm	11	0	0	0
Boron	ppm	50	21	113	51

Depot: TRAOKE
Unique No: 10882814
Signed: Wes Davis
Report Date: 16 Feb 2024



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VOLVO GRAPHS

