



CONSTRUCTION EQUIPMENT

TMR-OKEECHOBEE SPM580960 VOLVO L180H 4821 - DIESEL ENGINE



Sample No: VCP412620
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM580960



SAMPLE INFORMATION

Sample Number	VCP412620	VCP408001	VCP406020	VCP376938
Sample Date	21 Jul 2023	01 May 2023	06 Apr 2023	07 Mar 2023
Machine Hours	13817	13007	12758	12441
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	12.3	12.3	12.3	12.4
Base Number (BN)	mg KOH/g	9.7	10.4	9.9	9.9
Oxidation (PA)	%	81	79	73	63

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

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	55	48	50	55
Sulfation (PA)	%	60	60	58	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	3
Sodium	ppm	3	3	2	2
Potassium	ppm	0	1	<1	0



WEAR METALS

Iron	ppm	3	2	3	1
Copper	ppm	3	<1	<1	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	0	0	<1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	42	42	42	59
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1710	1598	1433	1261
Magnesium	ppm	495	507	508	812
Zinc	ppm	1108	1123	1027	1184
Phosphorus	ppm	907	941	856	959
Barium	ppm	0	0	0	0
Boron	ppm	38	44	33	9

Depot: TRAOKE
Unique No: 10577382
Signed: Wes Davis
Report Date: 31 Jul 2023



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GRAPHS

