



CONSTRUCTION EQUIPMENT

TMR-SARASOTA VOLVO L90E 66644 - DIESEL ENGINE



Sample No: VCP437588
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP437588	VCP274689	DJJ037751	DJJ015905
Sample Date	20 Mar 2024	10 Aug 2020	05 Mar 2019	07 Oct 2015
Machine Hours	2244	14876	14754	4085
Oil Hours	0	0	1000	250
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.0	12.0	▲ 11.78	13.97
Base Number (BN)	mg KOH/g	9.0	---	---	---
Oxidation (PA)	%	85	82	79	52

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 %	%	1.2	0.4	0.9	0.4
Nitration (PA)	%	73	53	73	58
Sulfation (PA)	%	65	62	60	47
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	14	▲ 32	9
Sodium	ppm	2	0	4	4
Potassium	ppm	0	0	2	0



WEAR METALS

Iron	ppm	18	10	26	8
Copper	ppm	<1	<1	5	2
Lead	ppm	<1	0	2	<1
Tin	ppm	0	0	1	0
Aluminum	ppm	2	0	4	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	38	36	33	45
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1707	1513	1362	1311
Magnesium	ppm	493	448	433	808
Zinc	ppm	1107	884	728	1054
Phosphorus	ppm	932	718	628	876
Barium	ppm	0	0	0	0
Boron	ppm	37	61	30	34

Depot: VOLVO0090
Unique No: 10941514
Signed: Wes Davis
Report Date: 26 Mar 2024



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VOLVO GRAPHS

