



CONSTRUCTION EQUIPMENT

SPM VOLVO L150H 6059 - DIESEL ENGINE



Sample No: VCP420926
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM



SAMPLE INFORMATION

Sample Number	VCP420926	VCP418284	VCP395985	VCP393632
Sample Date	10 Aug 2023	01 Jun 2023	23 Feb 2023	08 Nov 2022
Machine Hours	9867	9381	8687	8099
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

PARAGON DEVELOPMENT GROUP
 402 N FRONTAGE RD
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 US 33563
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	12.2	12.3	11.8	12.1
Base Number (BN)	mg KOH/g	9.4	9.2	9.9	11.0
Oxidation (PA)	%	76	84	79	81

CONTAMINATION

Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	53	62	61	63
Sulfation (PA)	%	58	60	59	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	4
Sodium	ppm	3	2	0	0
Potassium	ppm	0	0	1	1

WEAR METALS

Iron	ppm	2	4	4	4
Copper	ppm	<1	<1	1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	0	0	2	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	43	48	82	40
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0

ADDITIVES

Calcium	ppm	1773	1613	1553	1476
Magnesium	ppm	513	509	471	490
Zinc	ppm	1141	1070	1066	993
Phosphorus	ppm	941	887	858	839
Barium	ppm	0	0	2	0
Boron	ppm	34	27	38	29

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: PARPLA
Unique No: 10619895
Signed: Wes Davis
Report Date: 28 Aug 2023



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GRAPHS

