



CONSTRUCTION EQUIPMENT

621685 VOLVO L150H 6059 - DIESEL ENGINE



Sample No: VCP430497
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 621685



SAMPLE INFORMATION

Sample Number	VCP430497	VCP420926	VCP418284	VCP395985
Sample Date	30 Oct 2023	10 Aug 2023	01 Jun 2023	23 Feb 2023
Machine Hours	10424	9867	9381	8687
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

PARAGON DEVELOPMENT GROUP
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OIL CONDITION

Visc @ 100°C	cSt	12.2	12.2	12.3	11.8
Base Number (BN)	mg KOH/g	9.8	9.4	9.2	9.9
Oxidation (PA)	%	77	76	84	79

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 %	%	0.2	0.1	0.2	0.2
Nitration (PA)	%	57	53	62	61
Sulfation (PA)	%	59	58	60	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	4
Sodium	ppm	2	3	2	0
Potassium	ppm	<1	0	0	1



WEAR METALS

Iron	ppm	<1	2	4	4
Copper	ppm	<1	<1	<1	1
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	0	0	2
Chromium	ppm	0	0	0	0
Molybdenum	ppm	38	43	48	82
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1478	1773	1613	1553
Magnesium	ppm	475	513	509	471
Zinc	ppm	1024	1141	1070	1066
Phosphorus	ppm	864	941	887	858
Barium	ppm	0	0	0	2
Boron	ppm	30	34	27	38

Depot: PARPLA
Unique No: 10764749
Signed: Wes Davis
Report Date: 30 Nov 2023



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GRAPHS

