

OIL ANALYSIS REPORT



DONALD CHASMAR 506155 ONAN G170217975 - GENSET

Sample No: VPA056323

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA056323	VPA048674	VPA048168	VPA037204
Sample Date	18 Apr 2024	09 Oct 2023	19 Dec 2022	18 Oct 2021
Machine Hours	778	777	710	637
Oil Hours	3	0	0	100
Oil Changed	Not Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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 SAINT CLAIR SHORES, MI
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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.8	13.2	13.3
Base Number (BN)	mg KOH/g	10.1	10.2	10.1	---
Oxidation (PA)	%	56	56	55	58

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0.1	0.1	0.1
Nitration (PA)	%	38	43	43	47
Sulfation (PA)	%	51	50	51	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	5	8	9
Sodium	ppm	<1	<1	2	2
Potassium	ppm	2	1	<1	2

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.

WEAR METALS

Iron	ppm	<1	3	4	6
Copper	ppm	0	2	<1	2
Lead	ppm	0	<1	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	1	5	<1	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	56	56	60	61
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	1095	981	1070	1207
Magnesium	ppm	896	861	926	1047
Zinc	ppm	1163	1111	1193	1268
Phosphorus	ppm	1001	931	1018	1148
Barium	ppm	0	1	1	0
Boron	ppm	13	5	<1	11

Depot: VP297371
Unique No: 10992753
Signed: Jonathan Hester
Report Date: 25 Apr 2024

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**VOLVO
PENTA**

GRAPHS

