

OIL ANALYSIS REPORT



RICHARD LEWIS 505843 KOHLER 2241537 - GENSET

Sample No: VPA056245

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

SAMPLE INFORMATION

Sample Number	VPA056245	VPA042397	VPA031706	VPA023504
Sample Date	27 Mar 2024	23 Feb 2023	30 Sep 2020	05 Mar 2020
Machine Hours	2146	2090	1985	1894
Oil Hours	0	0	100	78
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	13.1	13.2	13.3
Base Number (BN)	mg KOH/g	9.9	10.3	---	---
Oxidation (PA)	%	61	55	60	58

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	46	43	48	46
Sulfation (PA)	%	52	51	55	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	2	4	3
Sodium	ppm	0	<1	3	2
Potassium	ppm	4	1	<1	<1

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 acceptable for the time in service.

WEAR METALS

Iron	ppm	3	2	4	2
Copper	ppm	3	2	<1	<1
Lead	ppm	6	<1	<1	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	1	0	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	64	61	60	53
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0

Diagnosis

ADDITIVES

Calcium	ppm	1272	1095	1006	992
Magnesium	ppm	1291	908	910	824
Zinc	ppm	1541	1204	1151	1044
Phosphorus	ppm	1247	1019	1006	942
Barium	ppm	0	0	0	0
Boron	ppm	2	3	4	9

Depot: VP297371
Unique No: 10953991
Signed: Sean Felton
Report Date: 03 Apr 2024

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VOLVO PENTA

GRAPHS

