

OIL ANALYSIS REPORT



GOLDEN DAZE VOLVO PENTA A557122 - STARBOARD DIESEL ENGINE

Sample No: VPA021988
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA021988	VPA046229	---	---
Sample Date	28 Nov 2023	22 Feb 2023	---	---
Machine Hours	368	351	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	13.2	13.6	---	---
Base Number (BN)	mg KOH/g	10.2	10.2	---	---
Oxidation (PA)	%	54	54	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	40	42	---	---
Sulfation (PA)	%	50	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	4	7	---	---
Sodium	ppm	1	0	---	---
Potassium	ppm	<1	2	---	---

WEAR METALS

Iron	ppm	5	8	---	---
Copper	ppm	5	<1	---	---
Lead	ppm	3	1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	63	58	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1189	1112	---	---
Magnesium	ppm	1156	986	---	---
Zinc	ppm	1567	1350	---	---
Phosphorus	ppm	1247	1040	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	<1	---	---

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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 acceptable for the time in service.

Depot: VP1298996
Unique No: 10767385
Signed: Don Baldrige
Report Date: 05 Dec 2023

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GRAPHS

