

OIL ANALYSIS REPORT



KEITH WILLIAMS GB6018 VOLVO PENTA 2013976255 - PORT DIESEL ENGINE

Sample No: VPA258820

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

SAMPLE INFORMATION

Sample Number	VPA258820	VPA049509	VPA044267	---
Sample Date	03 May 2024	14 Dec 2023	21 Nov 2022	---
Machine Hours	0	662	432	---
Oil Hours	50	200	0	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ATTENTION	---

GRAND BANKS

450 SW SALEM RD
STUART, FL
US 34994
Contact: ROBERT ANTONA
roberta@gbmarinegroup.com
T: (609)384-5290
F:

OIL CONDITION

Visc @ 100°C	cSt	12.9	12.8	10.8	---
Base Number (BN)	mg KOH/g	9.9	8.5	9.6	---
Oxidation (PA)	%	54	60	96	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.3	0.4	---
Nitration (PA)	%	43	57	76	---
Sulfation (PA)	%	50	53	71	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	1.8	---
Silicon	ppm	5	14	31	---
Sodium	ppm	0	0	2	---
Potassium	ppm	2	2	18	---

Diagnosis

No corrective action is recommended at this time. 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	9	25	---
Copper	ppm	2	7	25	---
Lead	ppm	<1	1	4	---
Tin	ppm	<1	<1	4	---
Aluminum	ppm	2	2	6	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	64	57	36	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	2	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	1105	1211	1713	---
Magnesium	ppm	920	854	430	---
Zinc	ppm	1206	1239	1087	---
Phosphorus	ppm	1099	1065	913	---
Barium	ppm	2	0	0	---
Boron	ppm	3	6	46	---

Depot: VP531377
Unique No: 11022900
Signed: Sean Felton
Report Date: 14 May 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

