

OIL ANALYSIS REPORT



GALTEX PILOTS SERVICE VOLVO PENTA 2108182 - PORT DIESEL ENGINE

Sample No: VPA059455
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA059455	VPA059403	VPA060550	VPA060548
Sample Date	03 Jul 2024	14 May 2024	04 Mar 2024	21 Aug 2023
Machine Hours	4450	4001	3560	2500
Oil Hours	0	0	0	365
Oil Changed	N/A	N/A	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Elite Diesel Services LLC
 2103 Anders Lane
 KEMAH, TX
 US 77565
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.8	13.7	13.8
Base Number (BN)	mg KOH/g	6.3	5.7	6.8	6.4
Oxidation (PA)	%	59	49	65	62

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.6	0.3	0.6
Nitration (PA)	%	83	72	72	68
Sulfation (PA)	%	55	56	57	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	10	3	4
Sodium	ppm	2	1	<1	2
Potassium	ppm	4	2	5	4

WEAR METALS

Iron	ppm	8	10	0	11
Copper	ppm	<1	3	0	<1
Lead	ppm	1	<1	2	0
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	2	2	1	<1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	86	12	25	21
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	<1	0	<1	<1

ADDITIVES

Calcium	ppm	2511	2239	2357	2104
Magnesium	ppm	41	79	118	162
Zinc	ppm	1436	1108	1309	1250
Phosphorus	ppm	1200	949	1058	1014
Barium	ppm	0	0	0	0
Boron	ppm	27	27	55	106

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: VP680026
Unique No: 11115392
Signed: Don Baldrige
Report Date: 11 Jul 2024

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**VOLVO
PENTA**

GRAPHS

