

OIL ANALYSIS REPORT



DONALD CHASMAR 506155 VOLVO PENTA 7011421935 - STARBOARD DIESEL ENGINE

Sample No: VPA056319
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA056319	VPA048589	VPA048058	VPA037203
Sample Date	18 Apr 2024	09 Oct 2023	19 Dec 2022	18 Oct 2021
Machine Hours	557	557	505	428
Oil Hours	3	52	0	100
Oil Changed	Not Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.5	13.2	12.9	12.9
Base Number (BN)	mg KOH/g	10.3	9.7	9.8	---
Oxidation (PA)	%	55	55	56	59

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	37	45	49	53
Sulfation (PA)	%	51	50	53	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	6	5
Sodium	ppm	<1	0	<1	1
Potassium	ppm	0	1	<1	<1

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	2	5	5	8
Copper	ppm	0	8	10	18
Lead	ppm	0	<1	0	2
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	<1	1	<1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	58	58	58	63
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	1068	991	1023	1175
Magnesium	ppm	908	866	898	1073
Zinc	ppm	1175	1134	1149	1287
Phosphorus	ppm	1021	966	983	1185
Barium	ppm	0	1	1	0
Boron	ppm	9	6	0	10

Depot: VP297371
Unique No: 10992755
Signed: Jonathan Hester
Report Date: 25 Apr 2024

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VOLVO PENTA

GRAPHS

