

OIL ANALYSIS REPORT

VOLVO PENTA

SHARON MIHALIK H14621 VOLVO PENTA A197020 - STARBOARD DIESEL ENGINE

Sample No: VPA045515

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA045515	VPA033903	VPA022004	VPA011925
Sample Date	25 Sep 2023	11 Jan 2021	07 Jan 2019	23 Sep 2016
Machine Hours	416	353	250	145
Oil Hours	0	0	85	75
Oil Changed	N/A	N/A	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Walstrom Marine
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OIL CONDITION

Visc @ 100°C	cSt	█ 14.3	█ 14.5	█ 15.48	█ 15.5
Base Number (BN)	mg KOH/g	█ 8.8	---	---	---
Oxidation (PA)	%	█ 68	69	65	█ 56

CONTAMINATION

Soot %	%	█ 0.1	█ 0.2	█ 0.3	█ 0
Nitration (PA)	%	█ 52	53	55	█ 42
Sulfation (PA)	%	█ 57	59	53	█ 47
Glycol	%	█ NEG	NEG	NEG	NEG
Fuel	%	█ <1.0	<1.0	<1.0	<1.0
Silicon	ppm	█ 4	█ 4	█ 7	█ 7
Sodium	ppm	█ 2	█ 2	█ 2	█ 3
Potassium	ppm	█ 9	█ 5	█ 6	█ 9

WEAR METALS

Iron	ppm	█ 6	█ 7	█ 15	█ 9
Copper	ppm	█ 1	█ 2	█ 4	█ 2
Lead	ppm	█ <1	█ 2	█ 3	█ 0
Tin	ppm	█ 0	█ 0	█ 2	█ 0
Aluminum	ppm	█ <1	█ <1	█ 1	█ <1
Chromium	ppm	█ 0	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 0	█ 0	█ 1	█ <1
Nickel	ppm	█ 0	█ 1	█ 1	█ <1
Titanium	ppm	█ 0	█ <1	█ 0	█ <1
Silver	ppm	█ 0	█ 0	█ 0	█ 0
Manganese	ppm	█ 0	█ <1	█ <1	█ <1
Vanadium	ppm	█ 0	█ 0	█ 0	█ <1

ADDITIVES

Calcium	ppm	█ 2239	█ 2496	█ 2676	█ 2326
Magnesium	ppm	█ 10	█ 11	█ 18	█ 19
Zinc	ppm	█ 1297	█ 1106	█ 1108	█ 1147
Phosphorus	ppm	█ 1052	█ 996	█ 1042	█ 1047
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 225	█ 165	█ 28	█ 35

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: VP154879
Unique No: 10669738
Signed: Sean Felton
Report Date: 29 Sep 2023

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GRAPHS

