

OIL ANALYSIS REPORT

VOLVO PENTA

ALASKA LUXURY TOURS FAGE-PORT VOLVO PENTA 2006016956 - PORT DIESEL ENGINE

Sample No: VPA060140
Oil Type: KIRKLAND 15W40

SAMPLE INFORMATION

Sample Number	VPA060140	VPA036546	VPA056356	VPA055120
Sample Date	14 Sep 2023	09 Aug 2023	04 Jul 2023	07 Jun 2023
Machine Hours	3765	3550	3321	2325
Oil Hours	215	230	185	200
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.8	15.2	15.2	15.3
Base Number (BN)	mg KOH/g	9.5	9.3	10.1	9.8
Oxidation (PA)	%	70	68	71	69

CONTAMINATION

Soot %	%	0.4	0.4	0.3	0.3
Nitration (PA)	%	77	73	75	73
Sulfation (PA)	%	58	57	59	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	3	2	3
Sodium	ppm	6	2	<1	2
Potassium	ppm	5	<1	2	2

WEAR METALS

Iron	ppm	8	12	10	15
Copper	ppm	5	4	3	4
Lead	ppm	<1	6	5	4
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	1	3	6	10
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	30	62	59	58
Nickel	ppm	0	<1	<1	0
Titanium	ppm	15	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	<1	<1	<1	0

ADDITIVES

Calcium	ppm	1566	1147	1128	1231
Magnesium	ppm	791	1034	974	1043
Zinc	ppm	830	1327	1285	1329
Phosphorus	ppm	725	1082	1003	1057
Barium	ppm	0	0	0	0
Boron	ppm	92	<1	1	7

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: VP154394
Unique No: 10670471
Signed: Don Baldrige
Report Date: 01 Oct 2023

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GRAPHS

