

OIL ANALYSIS REPORT

VOLVO PENTA

3940016734 - PORT IPS

Sample No: VPA026533

Oil Type: MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA026533	VPA040286	VPA040284	VPA024167
Sample Date	13 Apr 2024	23 Oct 2022	23 Oct 2021	11 Oct 2020
Machine Hours	860	742	661	590
Oil Hours	118	151	71	49
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	ATTENTION	ABNORMAL	NORMAL	NORMAL

KENN WOLF
4037 N LOWEL
CHICAGO, IL
US 60641
Contact: KENN WOLF
kwolf@hfsmaterials.com
T: (773)339-0633
F:

OIL CONDITION

Visc @ 40°C	cSt	█ 103	█ 110	█ 111	█ 114
-------------	-----	-------	-------	-------	-------

CONTAMINATION

Water	%	NEG	▲ 0.340	NEG	NEG
Silicon	ppm	15	15	10	15
Sodium	ppm	█ 0	█ <1	█ 0	█ 2
Potassium	ppm	█ 1	█ 0	█ 0	█ 7

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

PQ		█ 33	█ 16	█ 26	█ 34
Iron	ppm	● 292	● 208	█ 62	█ 99
Copper	ppm	█ 20	█ 19	█ 12	█ 11
Lead	ppm	1	0	<1	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	3	2	1
Chromium	ppm	█ 2	█ 2	█ <1	█ 1
Molybdenum	ppm	█ 1	<1	4	0
Nickel	ppm	█ 4	█ 1	█ <1	█ 1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	█ 4	3	1	2
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	█ 17	5	69	4
Magnesium	ppm	█ 6	2	7	2
Zinc	ppm	█ 28	24	27	9
Phosphorus	ppm	█ 1390	1334	1380	1339
Barium	ppm	█ 1	0	0	0
Boron	ppm	█ 256	304	304	245

Depot: VPKENCHI
Unique No: 10983540
Signed: Angela Borella
Report Date: 22 Apr 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

