



## VOLVO PENTA 3940022372 - STARBOARD IPS

Sample No: VPA056282

**Oil Type:** VOLVO PENTA GL-5 SAE 75W90

SAMPLE INFORM	IATION				
Sample Number		VPA056282	VPA047615	VPA014501	VPA010741
Sample Date		13 Nov 2023	08 May 2023	04 Nov 2022	26 Apr 2022
Machine Hours		649	592	515	450
Oil Hours		0	0	65	60
Oil Changed		Changed	Not Changd	Changed	Not Changd
Sample Status		ABNORMAL	NORMAL	ATTENTION	NORMAL
OIL CONDITION					
Visc @ 40°C	cSt	<b>106</b>	■107	<b>1</b> 05	<b>1</b> 07
CONTAMINATIO	N				
Silicon	ppm	12	11	16	11
Sodium	ppm	<b>13</b>	7	<b>1</b> 0	<b>6</b>
Potassium	ppm	<b>■</b> <1	<b>1</b>	<b>-</b> < 1	<b>0</b>
WEAR METALS					
PQ		<b>23</b>	□18	<b>2</b> 6	<b>□</b> 30
Iron	ppm	<b>4</b> 246	■131	<u>△</u> 250	<b>145</b>
Copper	ppm	■11	<b>6</b>	<b>1</b> 7	<b>1</b> 2
Lead	ppm	0	0	<1	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	5	3	2
Chromium	ppm	■1	<b>1</b>	<b>2</b>	<b>1</b>
Molybdenum	ppm	<b>■</b> 0	<b>-</b> <1	<b></b>	<b></b>
Nickel	ppm	<b>■</b> 2	<b>2</b>	<b>3</b>	<b>2</b>
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<b>■</b> 3	<b>2</b>	<b>4</b>	<b>3</b>
Vanadium	ppm	0	0	0	0
ADDITIVES					
Calcium	ppm	<b>10</b>	<b>1</b> 5	<b>1</b> 0	<b>1</b> 5
Magnesium	ppm	<b>■</b> 9	<b>1</b> 7	28	■30
Zinc	ppm	<b>■24</b>	<b>1</b> 2	<b>1</b> 2	■10
Phosphorus	ppm	<b>1337</b>	■1399	■1388	■1438
Barium	ppm	<b>■</b> 0	<b>0</b>	<b>0</b>	<b>0</b>
Boron	ppm	<b>286</b>	■307	<b>298</b>	<b>299</b>

## FDDA FT PIERCE - POWER CENTER

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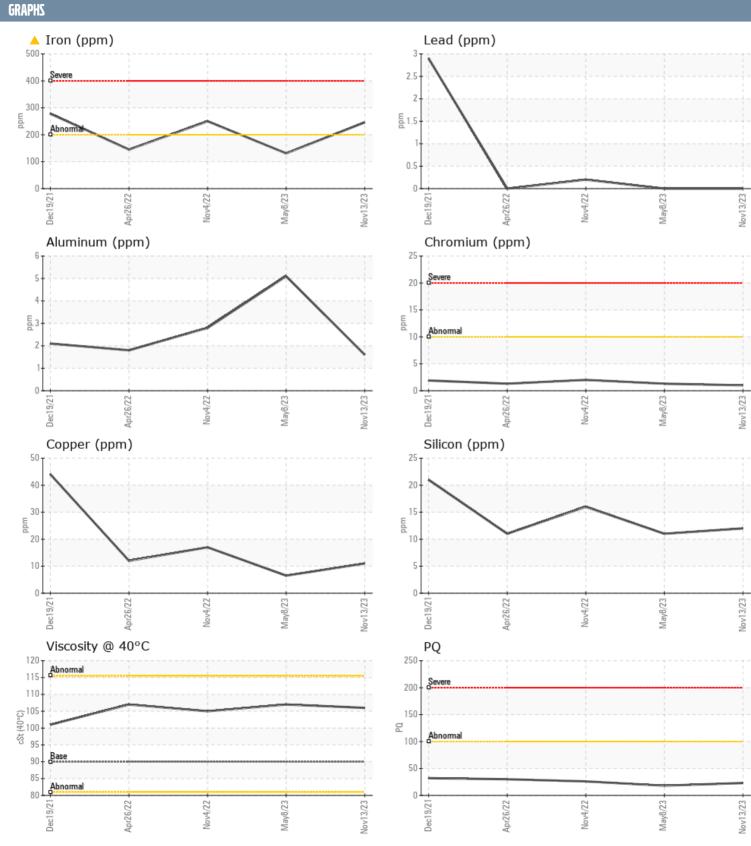
## Diagnosis

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.

Depot:VP208659Unique No:10740945Signed:Doug BogartReport Date:16 Nov 2023

## **OIL ANALYSIS REPORT**





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