



## BRIAN FINN PB5519 VOLVO PENTA 3950002844 - STARBOARD IPS

Sample No: VPA034282

**Oil Type:** GEAR OIL SAE 75W90

CAMPLE INCORM	ATION				
SAMPLE INFORM	ATIUN				
Sample Number		VPA034282	VPA051931	VPA041404	VPA041392
Sample Date		12 Mar 2024	21 Sep 2023	22 Mar 2023	20 Jan 2023
Machine Hours		1520	1338	1200	1148
Oil Hours		150	150	50	10
Oil Changed		Changed	Changed	Not Changd	Changed
Sample Status		ATTENTION	ATTENTION	NORMAL	NORMAL
OIL CONDITION					
Visc @ 40°C	cSt	<b>104</b>	104	104	■106
CONTAMINATION					
Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	3	3	1
Sodium	ppm	<b>20</b>	<b>2</b> 6	<b>1</b>	■3
Potassium	ppm	■1	■0	<b>1</b>	< 1
WEAR METALS					
PQ		<b>■</b> 18	<b>2</b> 3	<b>1</b> 4	<b>1</b> 4
Iron	ppm	<b>275</b>	219	<b>5</b> 5	<b>4</b> 3
Copper	ppm	<b>12</b>	<b>1</b> 6	5	3
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	7	6	1	1
Chromium	ppm	<b>2</b>	<b>2</b>	<b>-</b> <1	<b></b> <1
Molybdenum	ppm	<b>■&lt;1</b>	<b>1</b>	<b>-</b> <1	<b>-</b> <1
Nickel	ppm	<b>1</b>	<b>1</b>	<b>-</b> <1	<b></b> <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<b>2</b>	<b>4</b>	<b></b> <1	<b>-</b> <1
Vanadium	ppm	0	0	0	0
ADDITIODA					
Calcium	ppm	■10	<b>1</b> 2	■8	<b>9</b>
Magnesium	ppm	<b>□</b> 7	8	<b>4</b>	<b>■</b> 3
Zinc	ppm	■32	<b>1</b> 1	■8	<b>1</b> 0
Phosphorus	ppm	<b>1440</b>	<b>1470</b>	■1356	■1306
Barium	ppm	<b>■</b> 0	<b>0</b>	■0	<b>2</b>
Boron	ppm	■306	<b>359</b>	■338	■293

## **GRAND BANKS**

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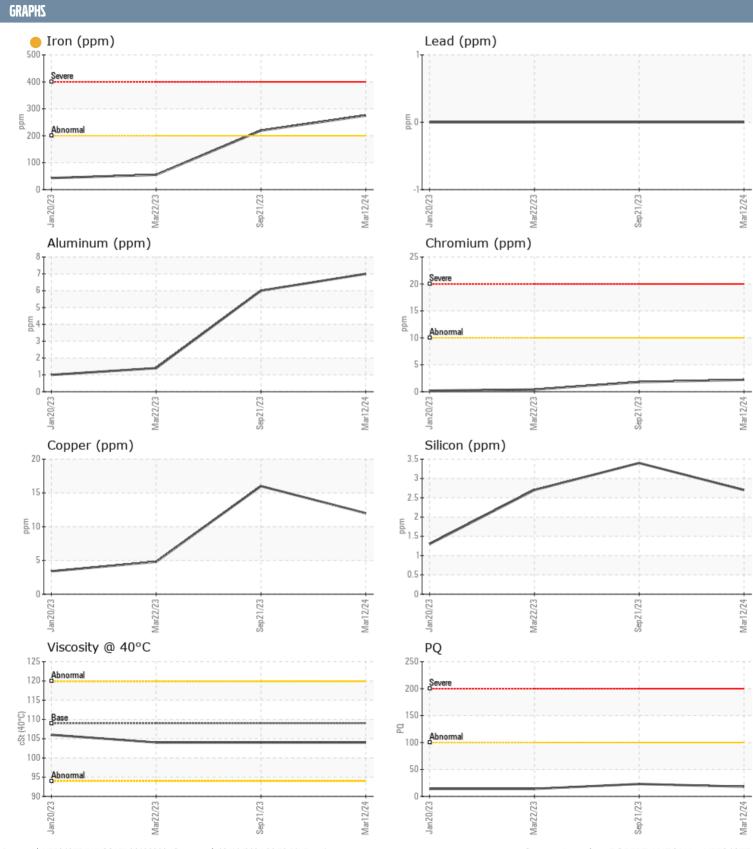
## Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:VP531377Unique No:10929216Signed:Don BaldridgeReport Date:19 Mar 2024

## **OIL ANALYSIS REPORT**





Report Id: VP531377 [WUSCAR] 06120383 (Generated: 03/19/2024 20:50:58) Rev: 1