



## DUNLAP 505801 VOLVO PENTA 3950005029 - STARBOARD IPS

Sample No: VPA058470

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

SAMPLE INFORMA	ATION				
Sample Number		VPA058470	VPA055290	VPA044443	VPA032861
Sample Date		13 Mar 2024	10 Aug 2023	17 Mar 2023	19 Feb 2021
Machine Hours		509	475	403	207
Oil Hours		509	70	200	0
Oil Changed		Changed	Not Changd	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL
OIL CONDITION					
Visc @ 40°C	cSt	■106	■105	□106	91.7
CONTAMINATION					
Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	1	3	4	8
Sodium	ppm	<b>■&lt;1</b>	<b>0</b>	<b>2</b>	<b>4</b>
Potassium	ppm	<b>■&lt;1</b>	<b>2</b>	<b>4</b>	<b>1</b> 6
WEAR METALS					
PQ		<b>1</b> 5	<b>2</b> 2	<b>1</b> 2	<b>2</b> 0
Iron	ppm	<b>16</b>	■29	<b>4</b> 3	■34
Copper	ppm	2	2	5	5
Lead	ppm	0	0	0	2
Tin	ppm	0	0	0	0
Aluminum	ppm	0	<1	<1	1
Chromium	ppm	<b>0</b>	<b>-</b> <1	< 1	< 1
Molybdenum	ppm	<b>■</b> 0	<b>-</b> <1	<b>-</b> <1	<b>0</b>
Nickel	ppm	<b>■</b> 0	<b>-</b> <1	< 1	<b>1</b>
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<b>-&lt;1</b>	_2	<b>4</b>	<b>4</b>
Vanadium	ppm	0	0	0	0
ADDITIVES					
Calcium	ppm	<b>1</b> 4	<b>1</b> 6	<b>1</b> 7	<b>4</b> 3
Magnesium	ppm	34	■36	■156	■1006
Zinc	ppm	■4	<b>9</b>	<b>0</b>	■9
Phosphorus	ppm	<b>1392</b>	■1387	<b>1293</b>	<b>1589</b>
Barium	ppm	■0	<b>2</b>	□0	<b>0</b>
Boron	ppm	<b>■300</b>	■368	■337	<b>530</b>

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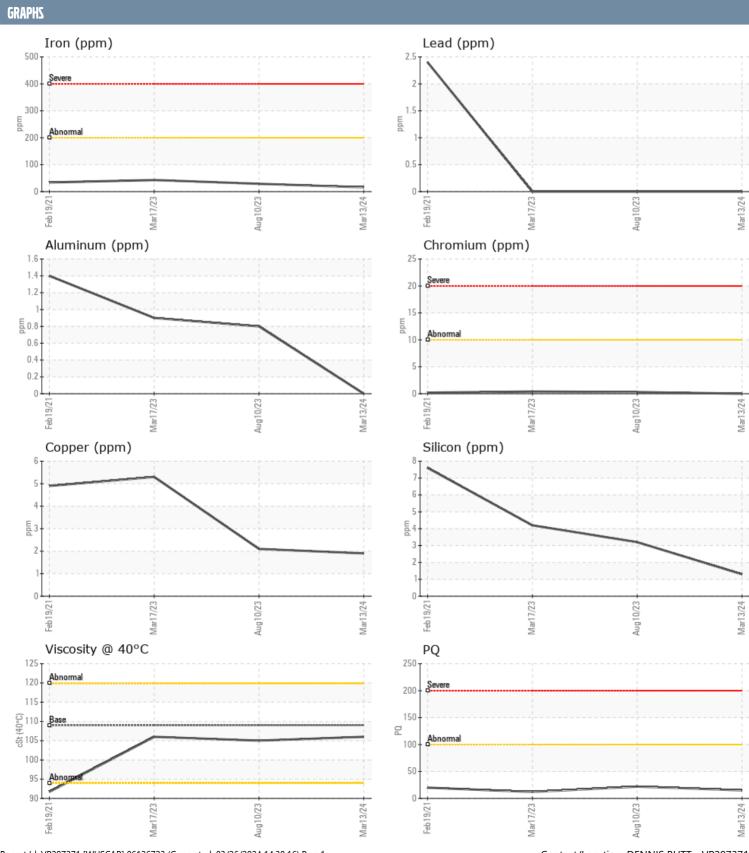
## Diagnosis

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 condition of the oil is acceptable for the time in service.

Depot:VP297371Unique No:10940874Signed:Don BaldridgeReport Date:26 Mar 2024

## **OIL ANALYSIS REPORT**





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