



GROFF JC VOLVO PENTA 3940019181 - STARBOARD IPS

Sample No: VPA021906
Oil Type: VOLVO 90W

SAMPLE INFORM	ATION			
Sample Number		VPA021906	VPA040680	
Sample Date		13 Dec 2023	21 Jun 2022	
Machine Hours		517	400	
Oil Hours		0	0	
Oil Changed		Not Changd	Not Changd	
Sample Status		NORMAL	NORMAL	
		110111111111	TYOTHYDIE	
OIL CONDITION				
Visc @ 40°C	cSt	107	□107	
CONTAMINATION				
Water	%	NEG	NEG	
Silicon	ppm	6	6	
Sodium	ppm	0	0	
Potassium	ppm	0	- <1	
WEAR METALS				
PQ		11	2 3	
Iron	ppm	■8	2 7	
Copper	ppm	2	4	
Lead	ppm	0	0	
Tin	ppm	0	<1	
Aluminum	ppm	0	<1	
Chromium	ppm	0	< 1	
Molybdenum	ppm	0	<u></u> <1	
Nickel	ppm	0	□ 0	
Titanium	ppm	0	0	
Silver	ppm	0	<1	
Manganese	ppm	<1	- <1	
Vanadium	ppm	<1	0	
ADDITIDDA				
Calcium	ppm	0	□ 36	
Magnesium	ppm	0	5	
Zinc	ppm	0	1 9	
Phosphorus	ppm	1348	1208	
Barium	ppm	0	0	
Boron	ppm	318	■302	

Outstanding Marine

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Diagnosis

No corrective action is recommended at this time. 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:VP153685Unique No:10816476Signed:Doug BogartReport Date:04 Jan 2024

OIL ANALYSIS REPORT



