

#### Area IAN PORTER [SAM] Machine Id VOLVO PENTA 3194008293 Component Starboard IPS

GEAR OIL SAE 75W90 (4 GAL)

# RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### WEAR

The iron level is abnormal. All other component wear rates are normal.

## CONTAMINATION

There is a light concentration of water present in the oil.

# **FLUID CONDITION**

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

Test	UOM	Method	Limit/Abn	Cı	urrent	History1	History2
Sample Number		Client Info		VF	A059130	VPA048328	VPA037121
Sample Date		Client Info		09	Jan 2024	23 Mar 2022	20 Jan 2022
Machine Age	hrs	Client Info		10	46	0	0
Oil Age	hrs	Client Info		19	0	0	0
Filter Age	hrs	Client Info		0		0	0
Oil Changed		Client Info		CI	nanged	N/A	N/A
Filter Changed		Client Info		CI	nanged	N/A	N/A
Sample Status				AE	NORMAL	NORMAL	NORMAL
PQ		ASTM D8184			30	31	19
Iron	ppm	ASTM D5185m	>200		322	18	8
Chromium	ppm	ASTM D5185m	>10		2	<1	0
Nickel	ppm	ASTM D5185m	>10		2	0	0
Titanium	ppm	ASTM D5185m			0	0	0
Silver	ppm	ASTM D5185m			0	<1	<1
Aluminum	ppm	ASTM D5185m			7	4	<1
Lead	ppm	ASTM D5185m			0	0	0
Copper	ppm	ASTM D5185m			22	1	5
Tin	ppm	ASTM D5185m			0	0	<1
Vanadium	ppm	ASTM D5185m			0	0	0
White Metal	scalar	*Visual	NONE		NONE	LIGHT	VLITE
Yellow Metal	scalar	*Visual	NONE		NONE	NONE	NONE
Silicon	ppm	ASTM D5185m			25	17	10
Potassium	ppm	ASTM D5185m	>20		3	0	0
Water	%	ASTM D6304	>0.2		0.341		
ppm Water	ppm	ASTM D6304	>2000		3410		
Silt	scalar	*Visual	NONE		NONE	NONE	NONE
Debris	scalar	*Visual	NONE		NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE		NONE	NONE	NONE
Appearance	scalar	*Visual	NORML		NORML	NORML	NORML
Odor	scalar	*Visual	NORML		NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2		0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m			17	1	1
Boron	ppm	ASTM D5185m	400		266	303	328
Barium	ppm	ASTM D5185m	200		0	0	0
Molybdenum	ppm	ASTM D5185m	12		2	2	<1
Manganese	ppm	ASTM D5185m			4	<1	<1
Magnesium	ppm	ASTM D5185m	12		8	<1	<1
Calcium	ppm	ASTM D5185m	150		7	4	6
Phosphorus	ppm	ASTM D5185m	1650		1286	1366	1276
Zinc	ppm	ASTM D5185m	125		4	0	8
0.11	4.1				o	00070	04407

Contact/Location: WILLOW YANARELLA - VP794951

20870

110

24654

108

ppm ASTM D5185m 22500

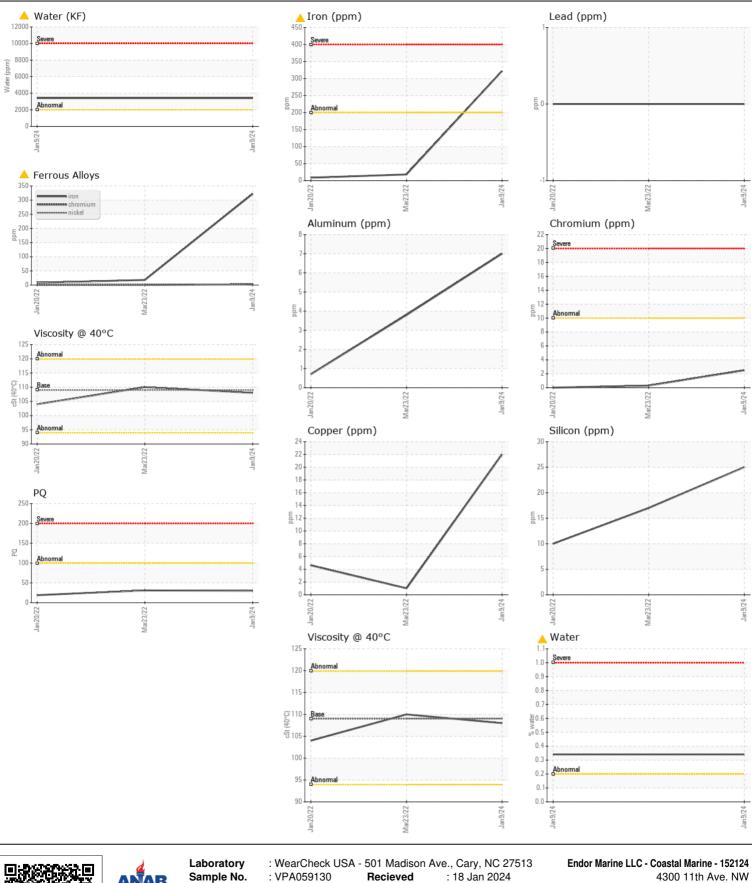
ASTM D445 109

cSt

Sulfur Visc @ 40°C

104

21187



Lab Number SEATTLE, WA :06065180 Diagnosed : 22 Jan 2024 : 10836562 **Unique Number** : Sean Felton US 98107 Diagnostician Test Package : MOB 1 (Additional Tests: KF, PQ) Contact: WILLOW YANARELLA Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. service@coastalmarineengine.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (206)784-3703 F: (206)784-8823 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)