

AQUINO [AQUINO] Machine Id VOLVO PENTA 3940020991 Starboard IPS

GEAR OIL SAE 75W90 (4 GAL)

RECOMMENDATION

Oil and filter 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.

V	V	E	Α	R

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

CONTAMINATION

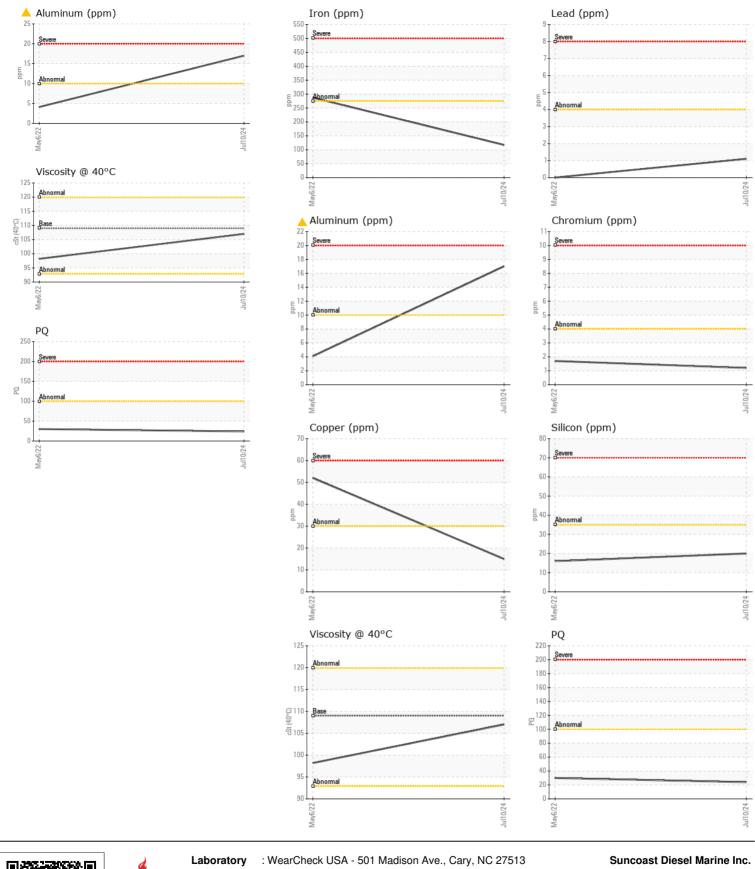
There is no indication of any contamination in the oil.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA059570	VPA047033	
Sample Date		Client Info		10 Jul 2024	06 May 2022	
Machine Age	hrs	Client Info		331	251	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
D O				• •	~~~	
PQ		ASTM D8184	075	24	30	
Iron	ppm	ASTM D5185m	>275	117	▲ 287	
Chromium	ppm	ASTM D5185m	>4	1	2	
Nickel	ppm	ASTM D5185m	>4	2	2	
Titanium	ppm	ASTM D5185m	>3	<1	0	
Silver	ppm	ASTM D5185m	10	0	<1	
Aluminum	ppm	ASTM D5185m	>10	▲ 17	4	
Lead	ppm	ASTM D5185m	>4	1	0	
Copper	ppm	ASTM D5185m	>30	15	52	
Tin	ppm	ASTM D5185m	>3	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	LIGHT	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>35	20	16	
Potassium	ppm	ASTM D5185m	>20	2	<1	
Water	pp	WC Method	>0.2	- NEG	NEG	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	0.2%	
Sodium	ppm	ASTM D5185m		6	21	
Boron	ppm	ASTM D5185m	400	301	137	
Barium	ppm	ASTM D5185m	200	28	0	
Molybdenum	ppm	ASTM D5185m	12	<1	<1	
Manganese	ppm	ASTM D5185m		2	12	
Magnesium	ppm	ASTM D5185m	12	6	53	
Calcium	ppm	ASTM D5185m	150	0	6	
Phosphorus	ppm	ASTM D5185m	1650	1388	1393	
Zinc	ppm	ASTM D5185m	125	32	22	
Sulfur						
Cana	ppm	ASTM D5185m	22500	22312	20120	

Contact/Location: MARK WARREN - VP945077



回清 Sample No. : VPA059570 Received 610 Mount Vernan St : 15 Jul 2024 Lab Number : 06236477 Tested : 16 Jul 2024 OLDSMAR, FL Unique Number : 11125311 : 17 Jul 2024 - Sean Felton US 34677 Diagnosed Test Package : MOB 1 (Additional Tests: PQ) Contact: MARK WARREN Certificate L2367 oldsmar@suncoastdmi.com To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (813)475-5942 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (813)475-5943

Contact/Location: MARK WARREN - VP945077