

BRIAN CAPO

VPA050717 - OUTDRIVE

Starboard Gearbox

GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

Gear wear is indicated.

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		VPA050717		
Sample Date		Client Info		03 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				ABNORMAL		
				• •		
PQ		ASTM D8184		34		
Iron	ppm	ASTM D5185m	>150	160		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	4		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	_	0		
Aluminum	ppm	ASTM D5185m	>5	6		
Lead	ppm	ASTM D5185m	>65	0		
Copper	ppm	ASTM D5185m	>80	3		
Tin	ppm	ASTM D5185m	>8	0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>20	4		
Potassium	ppm	ASTM D5185m	>20	0		
Water		WC Method	>0.2	NEG		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Sodium	ppm	ASTM D5185m	>170	6		
Boron	ppm	ASTM D5185m	400	104		
Barium	ppm	ASTM D5185m	200	0		
Molybdenum	ppm	ASTM D5185m	12	<1		
Manganese	ppm	ASTM D5185m		4		
Magnesium	ppm	ASTM D5185m	12	<1		
Calcium	ppm	ASTM D5185m	150	4		
Phosphorus	ppm	ASTM D5185m	1650	1511		
Zinc	ppm	ASTM D5185m	125	20		
Sulfur	ppm	ASTM D5185m	22500	29107		
Vian @ 1000	- 0+		140	100		

Contact/Location: Steven Stavracos - VP610610

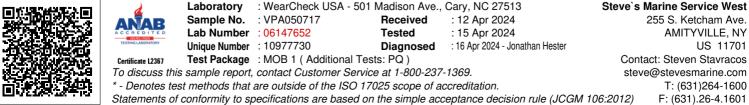
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ASTM D445 143

Visc @ 40°C

cSt





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