

WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

[WALLENBERG]

ZF 20270228 - INBOARD

Component Starboard Gearbox

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the	Sample Number		Client Info		VPA057286		
brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		12 Feb 2024		
	Machine Age	hrs	Client Info		954		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
WEAR	PQ		ASTM D8184		30		
	Iron	ppm	ASTM D5185m	>200	42		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>10	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>25	2		
	Lead	ppm	ASTM D5185m	>50	5		
	Copper	ppm	ASTM D5185m		43		
	Tin	ppm	ASTM D5185m	>10	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION There is no indication of any contamination in the oil.	0.11.		AOTA DE LOS		_		
	Silicon	ppm	ASTM D5185m		5		
	Potassium	ppm	ASTM D5185m		<1 NEO		
	Water Silt	cooler	WC Method *Visual	>0.2	NEG NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		94		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		60		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		555		
	Calcium	ppm	ASTM D5185m		1206		
	Phosphorus	ppm	ASTM D5185m		723		
	Zinc	ppm	ASTM D5185m		812		
	Sulfur	ppm	ASTM D5185m		2563		
	Visc @ 40°C	cSt	ASTM D445		78.6		





Laboratory Sample No.

Unique Number : 10877174

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VPA057286 Lab Number : 06089729

Diagnosed Test Package: MOB 1 (Additional Tests: PQ)

Received

Tested

: 14 Feb 2024

: 16 Feb 2024

: 16 Feb 2024 - Sean Felton

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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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