

Machine Id **ZF 20055265 - INBOARD** Component **Starboard Gearbox** Fluid **DIESEL ENGINE OIL SAE 30 (6 QTS)**

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

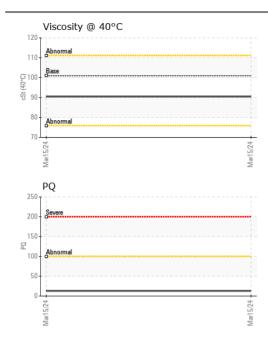
There is no indication of any contamination in the oil.

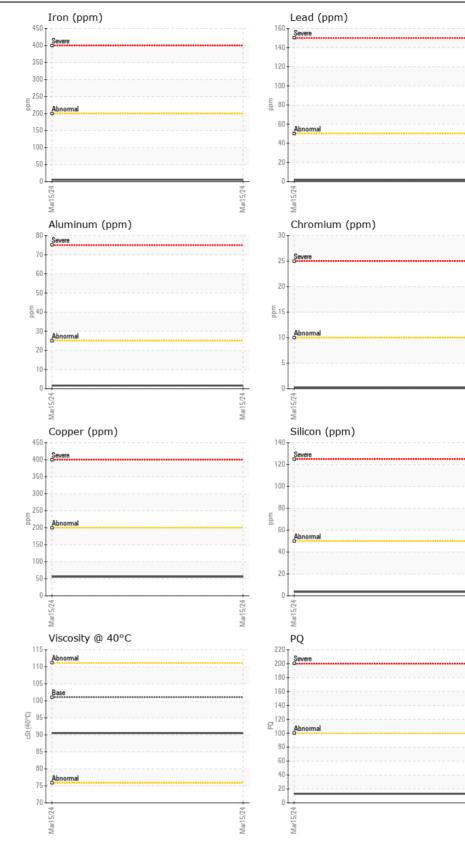
FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA060884		
Sample Date		Client Info		15 Mar 2024		
Machine Age	hrs	Client Info		1141		
Oil Age	hrs	Client Info		40		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status				NORMAL		
				40		
PQ		ASTM D8184	000	13		
Iron	ppm	ASTM D5185m	>200	5		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	05	0		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>50	2		
Copper	ppm	ASTM D5185m	>200	56		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m	NONE	0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>50	4		
Potassium	ppm	ASTM D5185m	>20	2		
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		
0			75			
Sodium	ppm	ASTM D5185m	>75	<1		
Boron	ppm	ASTM D5185m	250	20		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m ASTM D5185m	100	95		
Manageres				0		
Manganese	ppm		450	100		
Magnesium	ppm	ASTM D5185m	450	103		
Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m	3000	2171		
Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	3000 1150	2171 995		
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	3000 1150 1350	2171 995 1052		
Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	3000 1150	2171 995		

Contact/Location: KEVIN JACKSON - CARHILSC





CAROLINA MARINE DIESEL Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. PO BOX 24159 : VPA060884 Received : 18 Mar 2024 Lab Number : 06121770 : 19 Mar 2024 HILTON HEAD, SC Tested : 21 Mar 2024 - Jonathan Hester US 29925 Unique Number : 10935921 Diagnosed Test Package : MOB 1 (Additional Tests: PQ) Contact: KEVIN JACKSON Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. cmdieselsc@gmail.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (843)830-9202 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (843)681-9976

Contact/Location: KEVIN JACKSON - CARHILSC

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