



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

HOWIE

Machine Id

ZF 20058818 - INBOARD

Component

Port Gearbox

Fluid

{not provided} (1 GAL)

RECOMMENDATION

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

WEAR

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

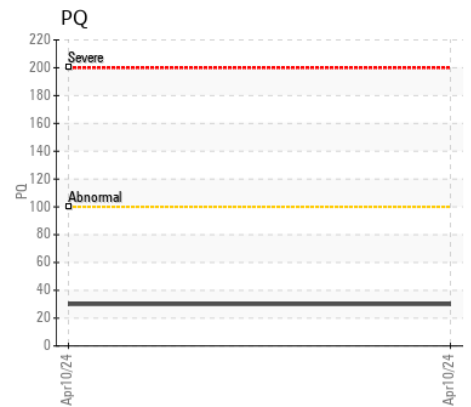
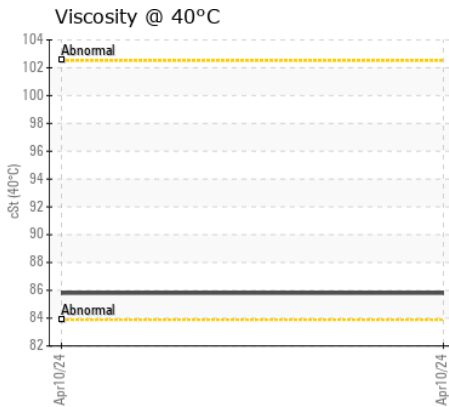
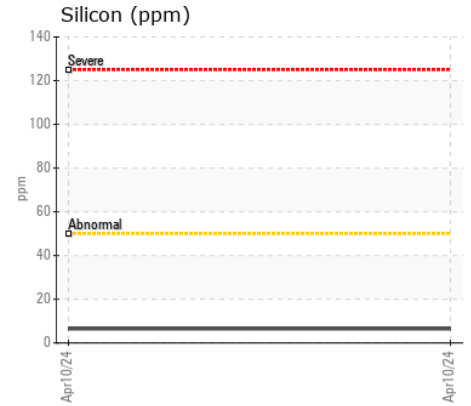
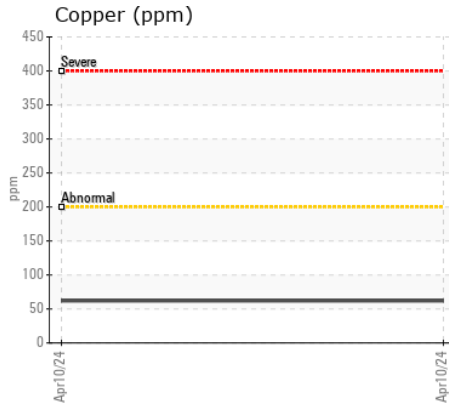
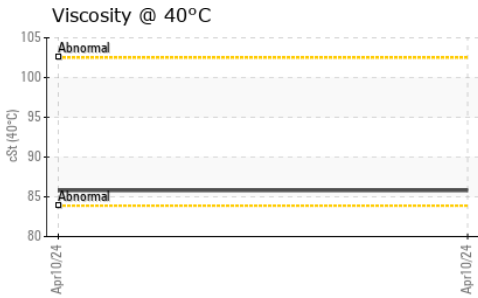
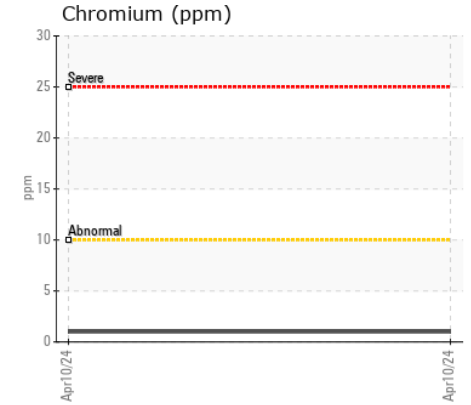
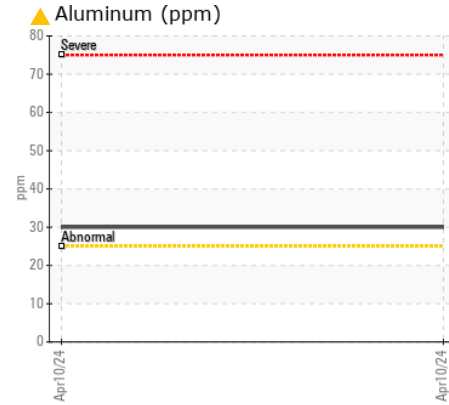
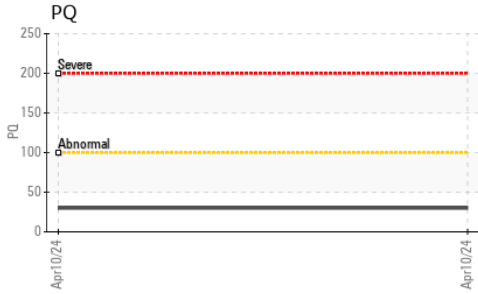
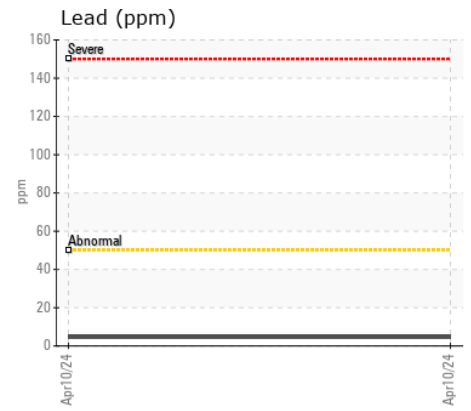
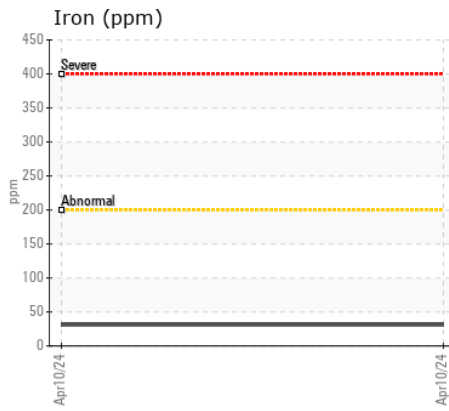
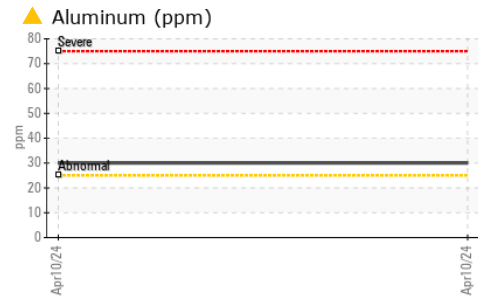
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA058546	---	---
Sample Date		Client Info		10 Apr 2024	---	---
Machine Age	hrs	Client Info		1214	---	---
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		30	---	---
Iron	ppm	ASTM D5185m	>200	31	---	---
Chromium	ppm	ASTM D5185m	>10	1	---	---
Nickel	ppm	ASTM D5185m	>10	2	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m	>25	▲ 30	---	---
Lead	ppm	ASTM D5185m	>50	5	---	---
Copper	ppm	ASTM D5185m	>200	62	---	---
Tin	ppm	ASTM D5185m	>10	2	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

Silicon	ppm	ASTM D5185m	>50	6	---	---
Potassium	ppm	ASTM D5185m	>20	4	---	---
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		2	---	---
Boron	ppm	ASTM D5185m		22	---	---
Barium	ppm	ASTM D5185m		<1	---	---
Molybdenum	ppm	ASTM D5185m		64	---	---
Manganese	ppm	ASTM D5185m		1	---	---
Magnesium	ppm	ASTM D5185m		202	---	---
Calcium	ppm	ASTM D5185m		2301	---	---
Phosphorus	ppm	ASTM D5185m		1095	---	---
Zinc	ppm	ASTM D5185m		1127	---	---
Sulfur	ppm	ASTM D5185m		5398	---	---
Visc @ 40°C	cSt	ASTM D445		85.8	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA058546 **Received** : 17 Apr 2024
Lab Number : 06152318 **Tested** : 19 Apr 2024
Unique Number : 10982396 **Diagnosed** : 19 Apr 2024 - Doug Bogart
Test Package : MOB 1 (Additional Tests: PQ)

Outstanding Marine
 PO Box 274
 GALENA, MD
 US 21635
 Contact: Ronda Bolinger
 rlwb@verizon.net

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)

T:
F: