



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
TREVOR SKELLY [7718151]
 Machine Id
ZF 95-15031 - INBOARD (S/N 96-15031)
 Component
Starboard Gearbox
 Fluid
CHEVRON DELO 400 SAE 30 (9 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA060841	VPA033467	---
Sample Date		Client Info		09 Jan 2024	28 Feb 2022	---
Machine Age	hrs	Client Info		1710	1388	---
Oil Age	hrs	Client Info		310	200	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ATTENTION	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		16	19	---
Iron	ppm	ASTM D5185m	>200	10	44	---
Chromium	ppm	ASTM D5185m	>10	0	<1	---
Nickel	ppm	ASTM D5185m	>10	0	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	1	---
Aluminum	ppm	ASTM D5185m	>25	2	4	---
Lead	ppm	ASTM D5185m	>50	36	▲ 116	---
Copper	ppm	ASTM D5185m	>200	28	▲ 122	---
Tin	ppm	ASTM D5185m	>10	<1	9	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

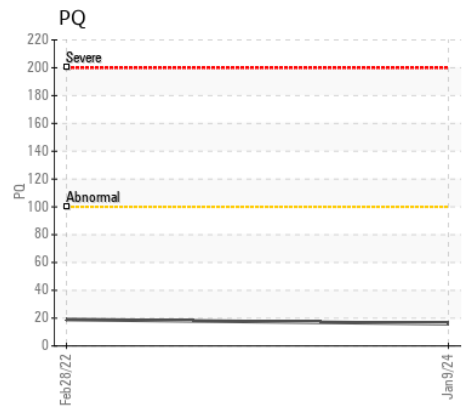
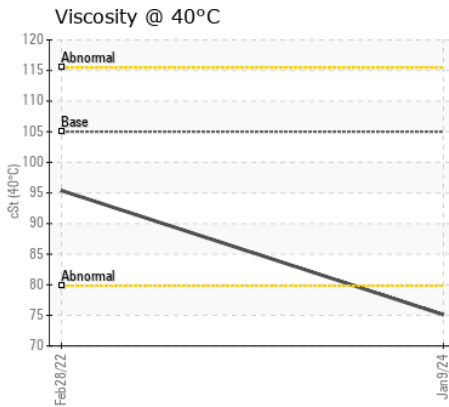
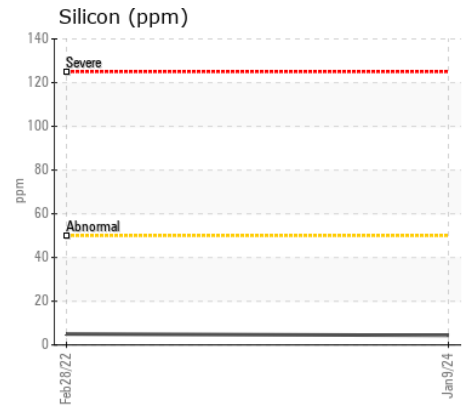
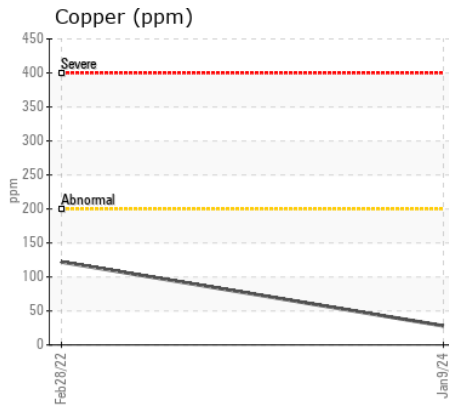
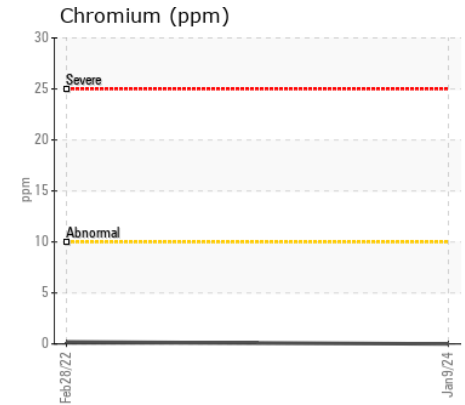
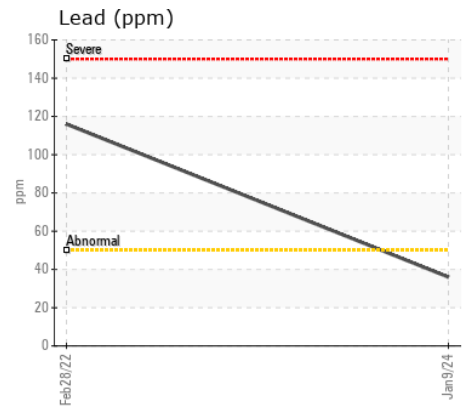
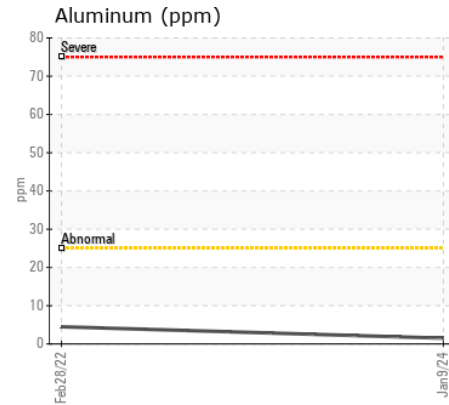
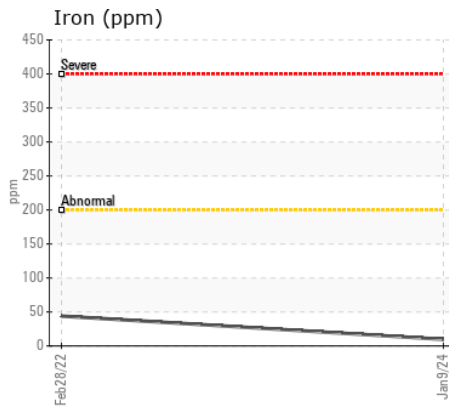
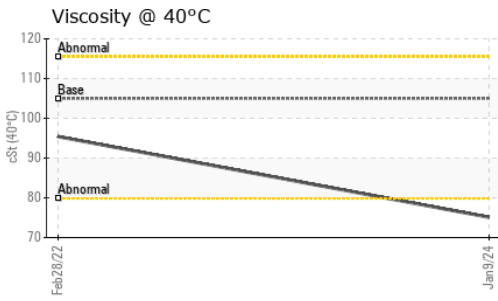
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	4	5	---
Potassium	ppm	ASTM D5185m	>20	0	0	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	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	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		3	2	---
Boron	ppm	ASTM D5185m		45	217	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		65	87	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m		960	833	---
Calcium	ppm	ASTM D5185m		1111	1187	---
Phosphorus	ppm	ASTM D5185m	1160	1102	1023	---
Zinc	ppm	ASTM D5185m	1270	1182	1085	---
Sulfur	ppm	ASTM D5185m		3438	3432	---
Visc @ 40°C	cSt	ASTM D445	105	75.1	95.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA060841 **Received** : 17 Jan 2024
Lab Number : 06063109 **Diagnosed** : 18 Jan 2024
Unique Number : 10834491 **Diagnostician** : Sean Felton
Test Package : MOB 1 (Additional Tests: PQ)

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 Kent, WA
 US 98032
 Contact: PAT RYAN
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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)