

## Machine Id EIC Component Starboard Genset Fluid CHEVRON URSA SUPER PLUS 40 (--- GAL) RECOMMENDATION

We recommend that you change the oil at the next available stoppage or outage. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

V	VF	- /	Δ	R
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All component wear rates are normal.

## CONTAMINATION

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

## **FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW06028299	MW05981751	MW05981747
Sample Date		Client Info		06 Dec 2023	16 Oct 2023	16 Oct 2023
Machine Age	hrs	Client Info		36965	36379	35909
Oil Age	hrs	Client Info		586	470	886
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	3	3	3
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	-	<1	7	6
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>12	2	2	2
Lead	ppm	ASTM D5185m	>17	0	0	0
Copper	ppm	ASTM D5185m	>70	۰ <1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m	210	0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Vibuui	NONE		NONE	NONE
Silicon	ppm	ASTM D5185m	>25	4	2	2
Potassium	ppm	ASTM D5185m	>20	2	2	2
Fuel	%	ASTM D3524	>4.0	<b>7.6</b>	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.0	7.0	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	18.9	18.6
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		2	0	0
Boron	ppm	ASTM D5185m		276	135	165
Barium	ppm	ASTM D5185m		6	10	10
Molybdenum	ppm	ASTM D5185m		97	59	62
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		484	679	663
Calcium	ppm	ASTM D5185m		1713	1316	1339
Phosphorus	ppm	ASTM D5185m	1000	825	818	782
Zinc	ppm	ASTM D5185m	1090	974	938	959
Sulfur	ppm	ASTM D5185m		3152	2964	3205
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	14.2	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	7.4	7.6	7.9	8.1
Visc @ 100°C	cSt	ASTM D445	14.7	12.2	13.1	13.2

WEAR

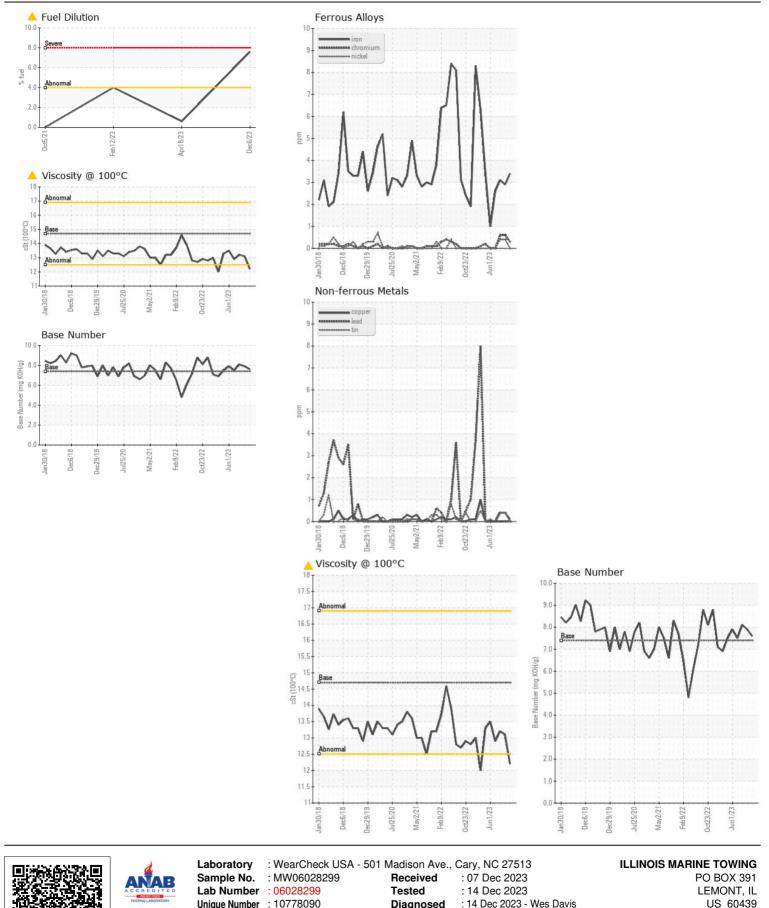
CONTAMINATION

**FLUID CONDITION** 

NORMAL

ABNORMAL

**ABNORMAL** 



Unique Number : 10778090 : 14 Dec 2023 - Wes Davis Diagnosed Test Package : MAR 2 (Additional Tests: FuelDilution, PercentFuel) Contact: RHETT DANIEL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. rdaniel@imtowing.com \* - 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)

Contact/Location: RHETT DANIEL - AMELEMIL

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