



Machine Id
SONNY IVEY (S/N PE6068G838013)

Component
Starboard Genset

Fluid
CHEVRON DELO 710 LS (6 GAL)

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0044782	MWM674576	MW0044779
Sample Date		Client Info		03 Feb 2024	04 Dec 2023	02 Jul 2023
Machine Age	hrs	Client Info		14877	13671	10814
Oil Age	hrs	Client Info		102	121	258
Filter Age	hrs	Client Info		102	0	258
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	5	2	4
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>12	1	2	2
Lead	ppm	ASTM D5185m	>17	2	0	<1
Copper	ppm	ASTM D5185m	>70	<1	0	1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

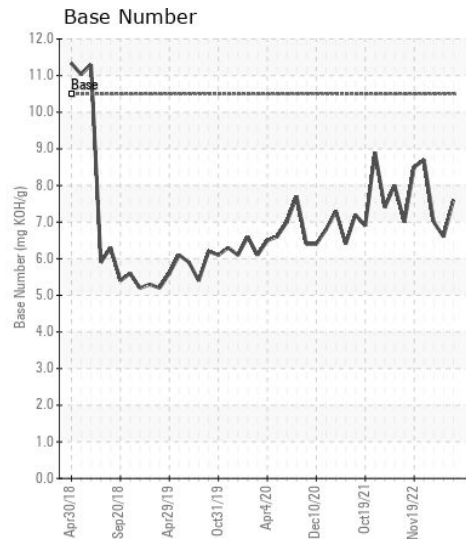
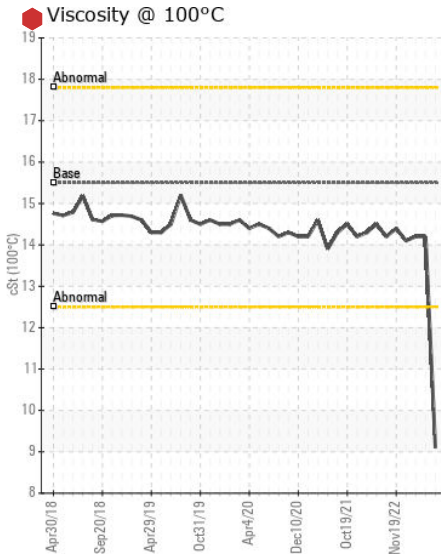
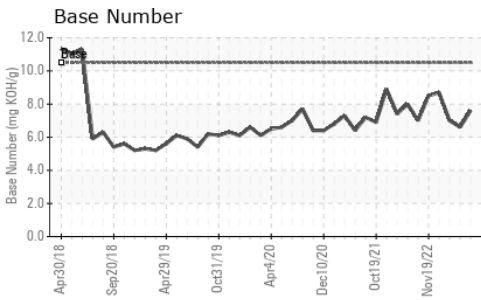
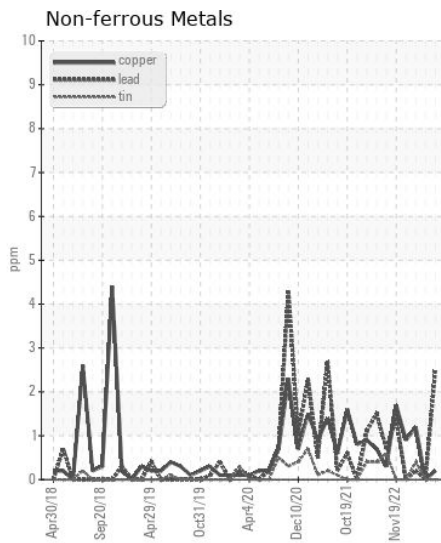
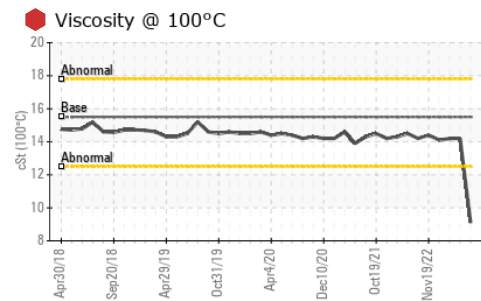
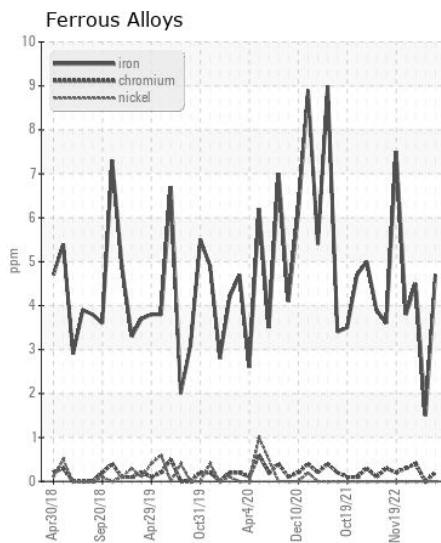
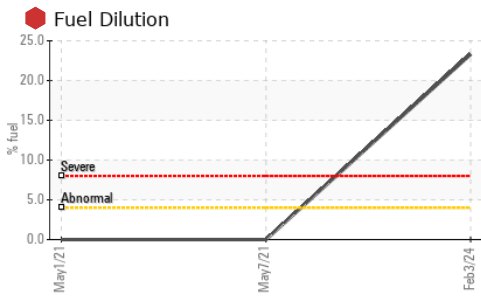
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>25	2	3	3
Potassium	ppm	ASTM D5185m	>20	1	0	1
Fuel	%	ASTM D3524	>4.0	23.3	<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	10.6	6.9	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.0	14.3	15.4
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

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.

Sodium	ppm	ASTM D5185m		0	0	2
Boron	ppm	ASTM D5185m		28	40	41
Barium	ppm	ASTM D5185m		8	0	0
Molybdenum	ppm	ASTM D5185m		29	38	42
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		8	14	12
Calcium	ppm	ASTM D5185m		2146	3210	3447
Phosphorus	ppm	ASTM D5185m		24	3	3
Zinc	ppm	ASTM D5185m		8	0	0
Sulfur	ppm	ASTM D5185m		1626	2369	2761
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	7.8	9.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	7.6	6.6	7.0
Visc @ 100°C	cSt	ASTM D445	15.5	9.1	14.2	14.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0044782
Lab Number : 06088506
Unique Number : 10875951
Test Package : MAR 2 (Additional Tests: FuelDilution, PercentFuel)

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 US 47130
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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)

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