



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

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW06151659	MW06101485	MW06071442
Sample Date		Client Info		16 Apr 2024	26 Feb 2024	25 Jan 2024
Machine Age	hrs	Client Info		38645	37975	37380
Oil Age	hrs	Client Info		670	595	415
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				ATTENTION	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	4	6	3
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>12	<1	1	<1
Lead	ppm	ASTM D5185m	>17	2	1	1
Copper	ppm	ASTM D5185m	>70	0	2	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

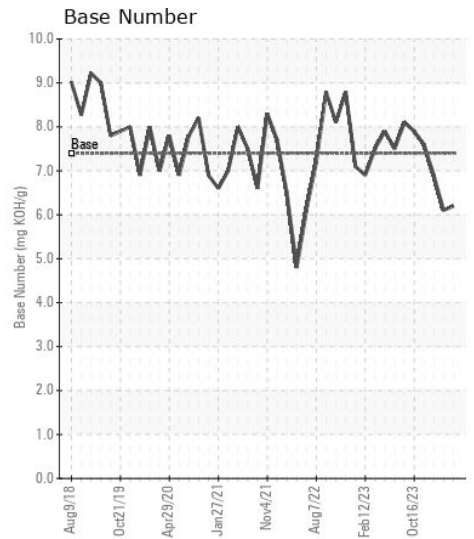
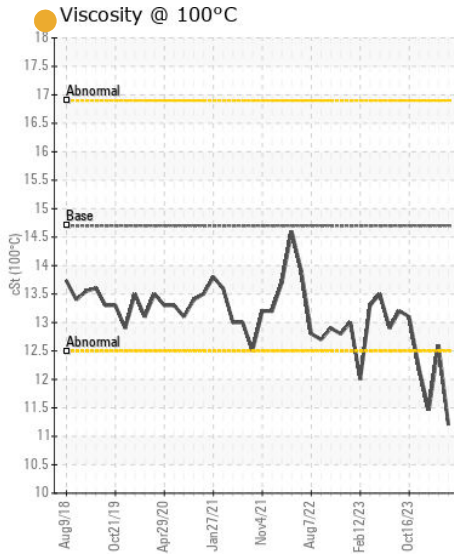
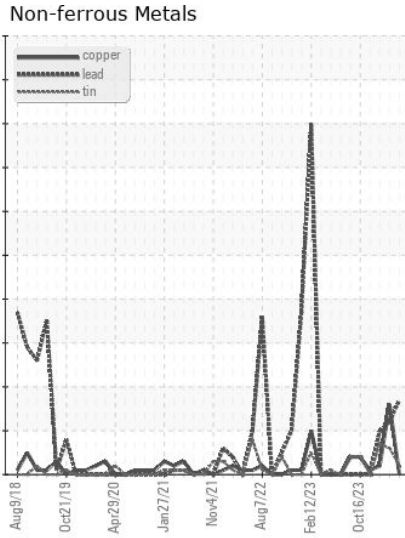
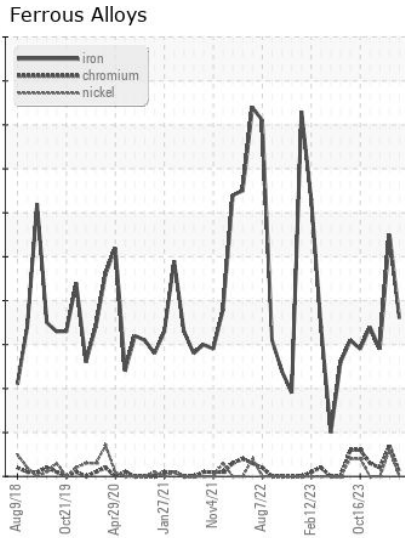
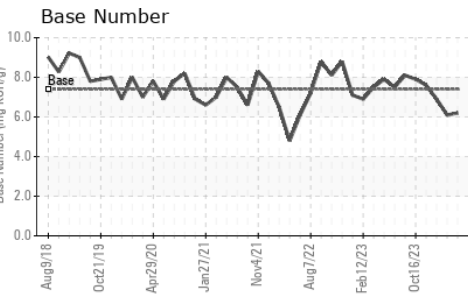
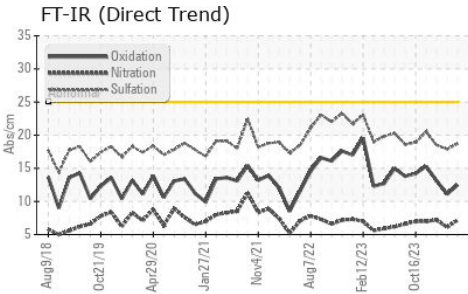
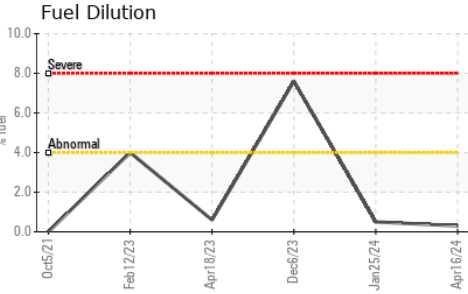
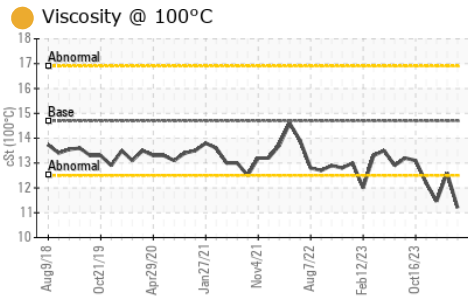
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	3	4	3
Potassium	ppm	ASTM D5185m	>20	0	3	<1
Fuel	%	ASTM D3524	>4.0	0.3	<1.0	0.5
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.2	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.2	6.1	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	17.9	18.5
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		0	1	2
Boron	ppm	ASTM D5185m		66	178	117
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		16	33	44
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		106	87	200
Calcium	ppm	ASTM D5185m		2255	2056	2038
Phosphorus	ppm	ASTM D5185m	1000	926	726	825
Zinc	ppm	ASTM D5185m	1090	1052	897	969
Sulfur	ppm	ASTM D5185m		3875	3185	2882
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.5	11.1	13.1
Base Number (BN)	mg KOH/g	ASTM D2896	7.4	6.2	6.1	6.9
Visc @ 100°C	cSt	ASTM D445	14.7	11.2	12.6	11.46



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW06151659 **Received** : 17 Apr 2024
Lab Number : 06151659 **Tested** : 22 Apr 2024
Unique Number : 10981737 **Diagnosed** : 22 Apr 2024 - Jonathan Hester
Test Package : MAR 2 (Additional Tests: FuelDilution, PercentFuel)

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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)