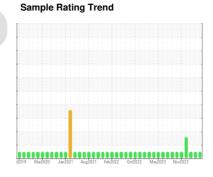


# **OIL ANALYSIS REPORT**

CRANE - T LANGE T LANGE

Starboard Genset

CHEVRON DELO 400 LE 15W40 (5 GAL)





### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

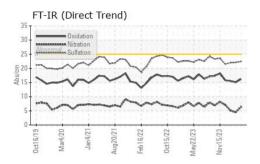
## **Fluid Condition**

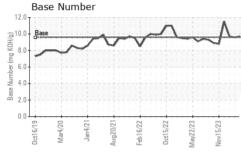
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

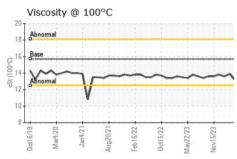
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0892616	WC0892618	WC0892612
Sample Date		Client Info		14 Feb 2024	24 Jan 2024	22 Jan 2024
Machine Age	hrs	Client Info		51824	51877	52030
Oil Age	hrs	Client Info		250	179	52040
Oil Changed	1110	Client Info		Changed	Not Changd	Changed
Sample Status		Onorte iriio		NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base			
	N			current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	<1	4
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>5	0	0	<1
Aluminum	ppm	ASTM D5185m	>12	5	4	3
Lead	ppm	ASTM D5185m	>17	0	0	2
Copper	ppm	ASTM D5185m	>70	<1	0	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		346	383	304
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		128	116	112
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		656	661	671
Calcium	ppm	ASTM D5185m		1570	1450	1649
Phosphorus	ppm	ASTM D5185m	1200	687	687	729
Zinc	ppm	ASTM D5185m	1300	865	836	890
Sulfur	ppm	ASTM D5185m	3200	2568	2490	3158
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	5
Sodium	ppm	ASTM D5185m		2	<1	1
Potassium	ppm	ASTM D5185m	>20	3	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0.1
Soot % Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>20	0.1 6.3	0 4.5	0.1 5.1
			>20 >30			
Nitration	Abs/cm Abs/.1mm	*ASTM D7624		6.3	4.5	5.1
Nitration Sulfation FLUID DEGRADA	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415 method	>30 limit/base	6.3 22.4 current	4.5 22.1 history1	5.1 22.0 history2
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>30 limit/base >25	6.3 22.4	4.5 22.1	5.1 22.0



## **OIL ANALYSIS REPORT**



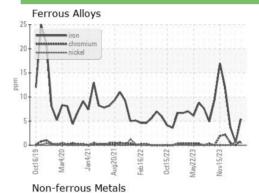


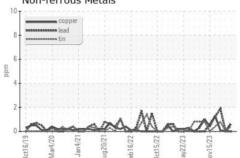


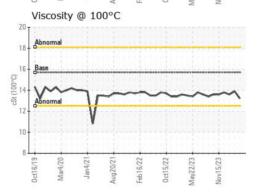
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

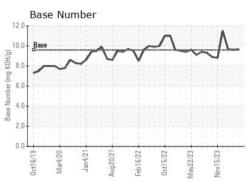
FLUID PROPER	HES	method	ilmit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	15.7	13.2	13.9	13.6

### **GRAPHS**













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0892616 Lab Number : 06156595

Unique Number : 10992018

Received : 22 Apr 2024 **Tested** 

: 23 Apr 2024 Diagnosed : 23 Apr 2024 - Wes Davis CONVENT, LA US 70723

**ASSOCIATED TERMINALS - CRANE** 

Contact: GREG JOSEY gjosey@associatedterminals.com

Test Package : FLEET Certificate 12367 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)

F: (225)562-3515 Contact/Location: GREG JOSEY - STJCONKL

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