



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

361.266

Machine Id

F WALKER

Component

Starboard Genset

Fluid

CHEVRON DELO 400 MULTIGRADE 15W40 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0727969	WC0727982	WC0720214
Sample Date		Client Info		04 Jan 2024	22 Sep 2023	05 Apr 2023
Machine Age	hrs	Client Info		2707	500	642
Oil Age	hrs	Client Info		500	500	250
Filter Age	hrs	Client Info		500	500	250
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	10	12	21
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>5	0	<1	0
Aluminum	ppm	ASTM D5185m	>12	5	3	2
Lead	ppm	ASTM D5185m	>17	<1	0	2
Copper	ppm	ASTM D5185m	>70	0	<1	3
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

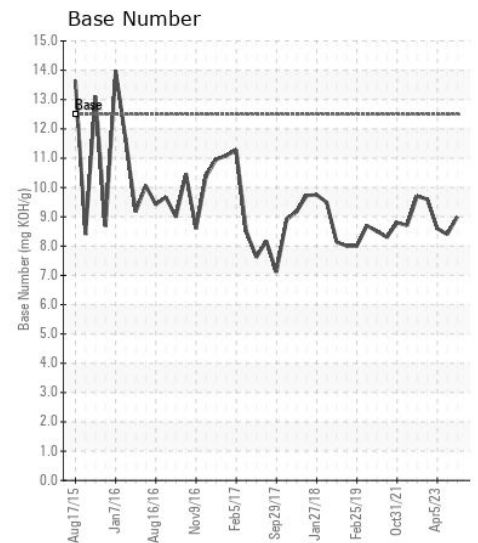
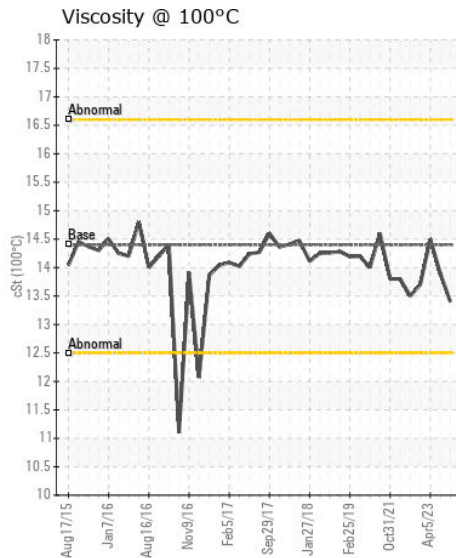
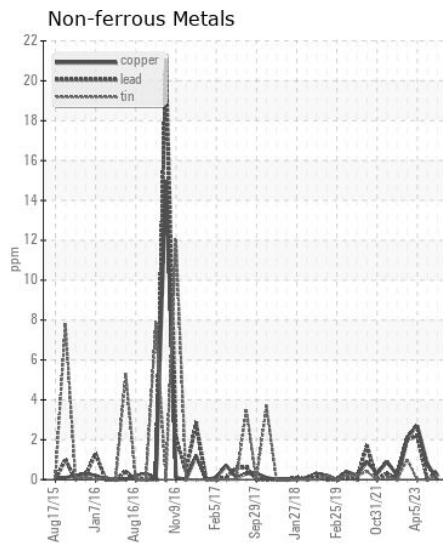
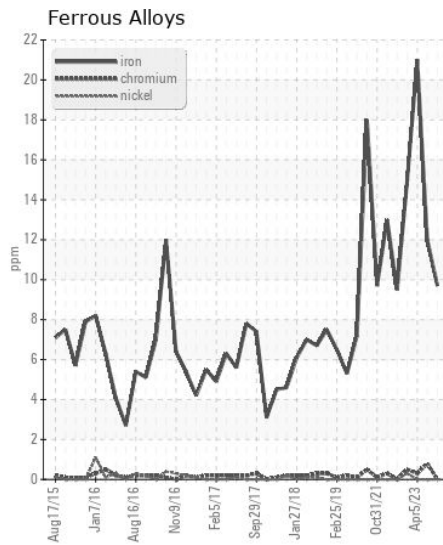
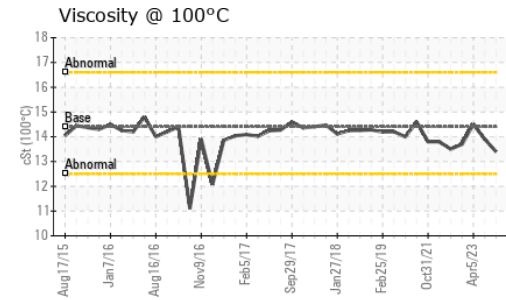
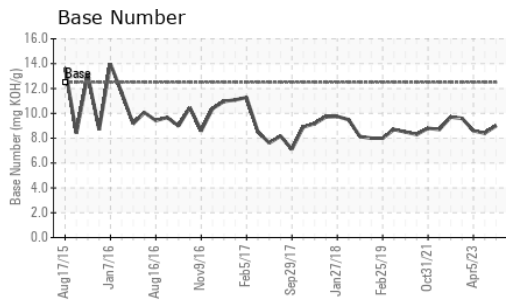
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	6	8
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
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
Soot %	%	*ASTM D7844		0.1	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.0	8.0	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	23.4	25.3
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. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<1	1	2
Boron	ppm	ASTM D5185m	151	322	286	207
Barium	ppm	ASTM D5185m	0.4	0	<1	0
Molybdenum	ppm	ASTM D5185m	250	125	133	130
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	712	734	709
Calcium	ppm	ASTM D5185m	2046	1581	1669	1690
Phosphorus	ppm	ASTM D5185m	1043	779	749	726
Zinc	ppm	ASTM D5185m	943	912	915	938
Sulfur	ppm	ASTM D5185m	5012	2587	2533	2652
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	18.1	21.0
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	9.0	8.4	8.6
Visc @ 100°C	cSt	ASTM D445	14.4	13.4	13.9	14.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0727969 **Received** : 17 Jan 2024
Lab Number : 06063421 **Diagnosed** : 18 Jan 2024
Unique Number : 10834803 **Diagnostician** : Wes Davis
Test Package : FLEET

ASSOCIATED TERMINALS - CRANE

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 US 70723
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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)