



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
LESTER CRUSE
Component
Starboard Reduction Gear
Fluid
CHEVRON DELO 400 SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0062015	MW0061986	MW0062008
Sample Date		Client Info		04 Jan 2024	11 Dec 2023	22 Oct 2023
Machine Age	hrs	Client Info		49124	49581	48636
Oil Age	hrs	Client Info		500	140	591
Filter Age	hrs	Client Info		500	140	591
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	0	<1	3
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	1
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>50	2	<1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	<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

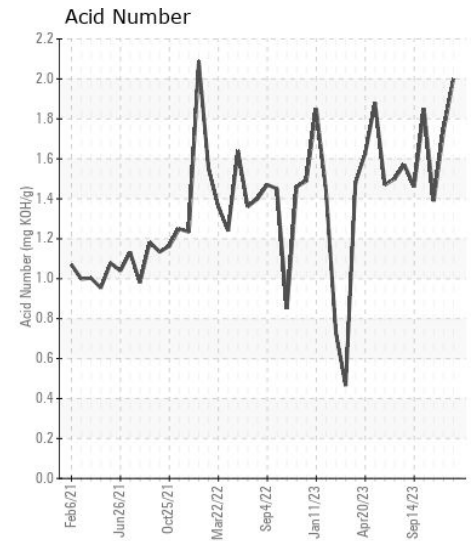
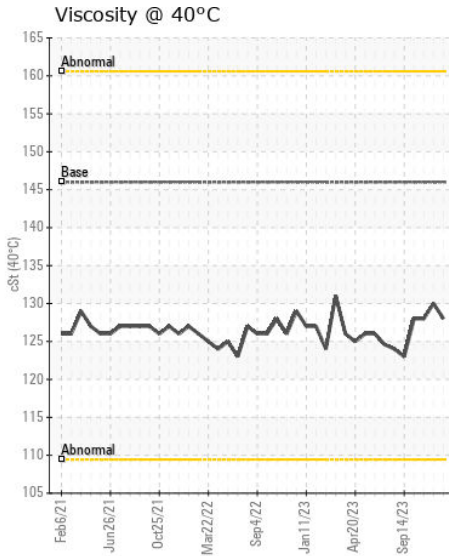
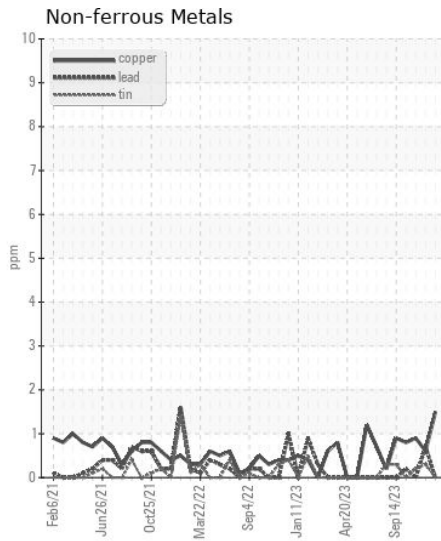
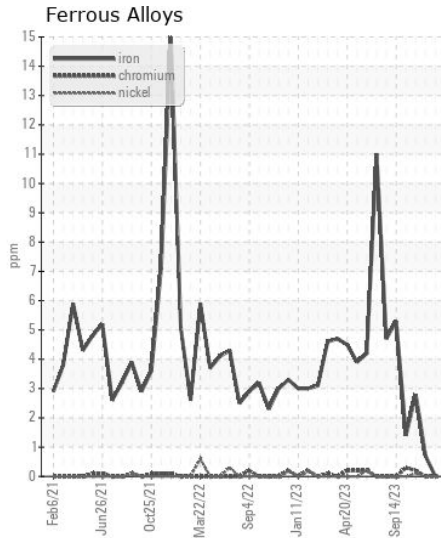
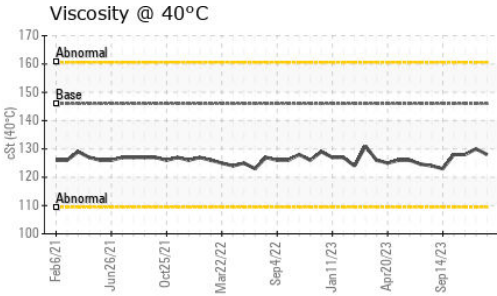
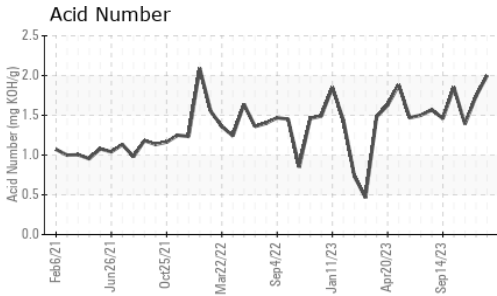
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	5	8	6
Potassium	ppm	ASTM D5185m	>20	0	<1	3
Water		WC Method	>0.1	NEG	NEG	NEG
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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	3	0
Boron	ppm	ASTM D5185m		479	484	474
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		46	45	47
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		36	37	36
Calcium	ppm	ASTM D5185m		3692	3717	3617
Phosphorus	ppm	ASTM D5185m	1160	1070	1144	1098
Zinc	ppm	ASTM D5185m	1270	1209	1266	1194
Sulfur	ppm	ASTM D5185m		3881	4196	4676
Acid Number (AN)	mg KOH/g	ASTM D8045		2.00	1.74	1.39
Visc @ 40°C	cSt	ASTM D445	146	128	130	128



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0062015 **Recieved** : 16 Jan 2024
Lab Number : 06062128 **Diagnosed** : 18 Jan 2024
Unique Number : 10833510 **Diagnostician** : Don Baldrige
Test Package : MAR 2

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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)