



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
GENE NEAL
Component
Starboard Reduction Gear
Fluid
CHEVRON GEAR COMPOUND EP 220 (135 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0067182	MW0067179	MW0067134
Sample Date		Client Info		25 Jun 2024	14 May 2024	21 Apr 2024
Machine Age	hrs	Client Info		31154	30185	29685
Oil Age	hrs	Client Info		18788	30185	29685
Filter Age	hrs	Client Info		480	186	398
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	18	17	19
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	<1	0	2
Lead	ppm	ASTM D5185m	>100	0	0	2
Copper	ppm	ASTM D5185m	>50	6	<1	2
Tin	ppm	ASTM D5185m	>10	0	0	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

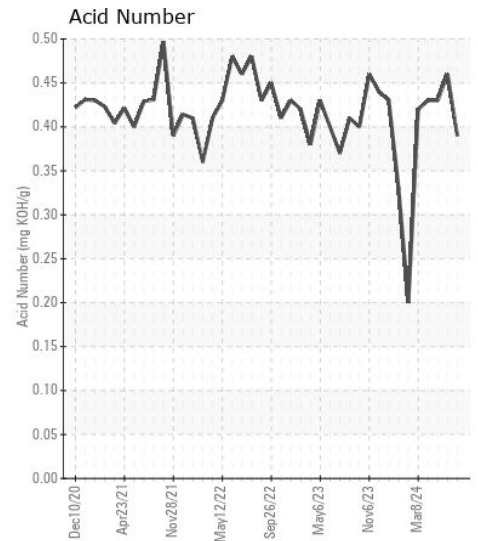
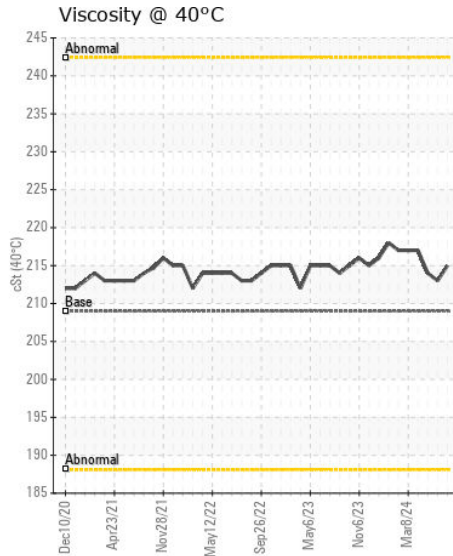
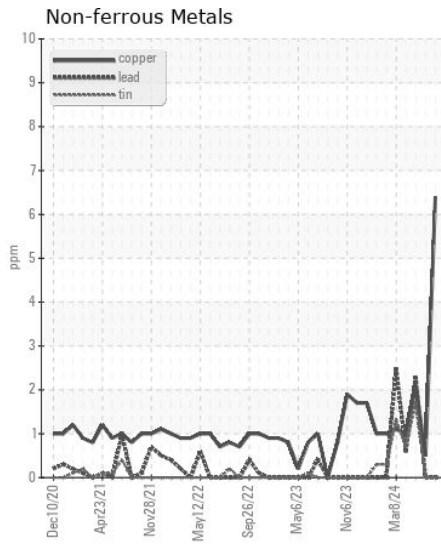
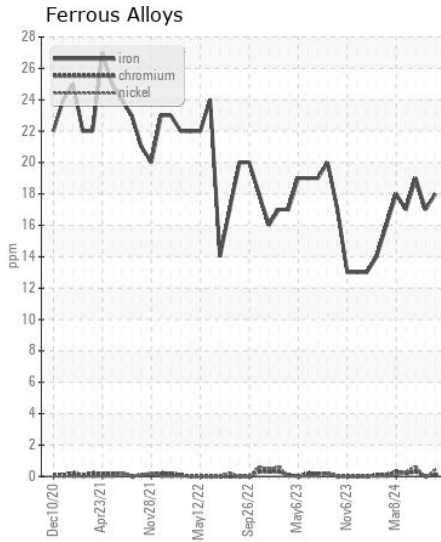
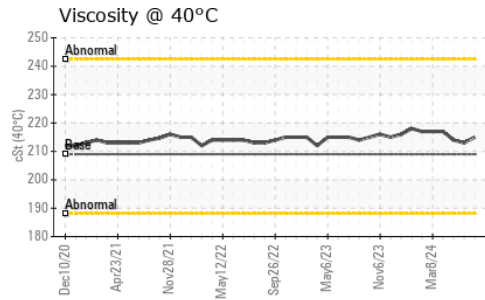
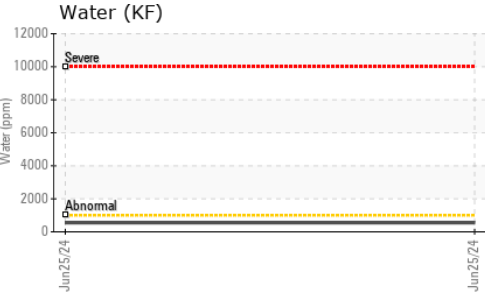
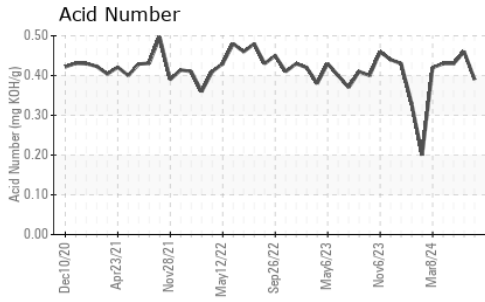
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	3	2	5
Potassium	ppm	ASTM D5185m	>20	6	4	6
Water	%	ASTM D6304	>0.1	0.055	---	---
ppm Water	ppm	ASTM D6304	>1000	550	---	---
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	0.2%	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		5	<1	<1
Boron	ppm	ASTM D5185m		13	14	14
Barium	ppm	ASTM D5185m		0	1	2
Molybdenum	ppm	ASTM D5185m		1	2	2
Manganese	ppm	ASTM D5185m		2	0	<1
Magnesium	ppm	ASTM D5185m		2	7	3
Calcium	ppm	ASTM D5185m		78	105	86
Phosphorus	ppm	ASTM D5185m		224	232	254
Zinc	ppm	ASTM D5185m		0	23	8
Sulfur	ppm	ASTM D5185m		7535	7445	8414
Acid Number (AN)	mg KOH/g	ASTM D8045		0.39	0.46	0.43
Visc @ 40°C	cSt	ASTM D445	209	215	213	214



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : MW0067182

Lab Number : 06238520

Unique Number : 11127354

Test Package : MAR 2 (Additional Tests: KF)

Received : 16 Jul 2024

Tested : 18 Jul 2024

Diagnosed : 18 Jul 2024 - Wes Davis

MAGNOLIA MARINE TRANSPORT

697 HAINING ROAD

VICKSBURG, MS

US 39183

Contact: MMT MAINTENANCE PLANNERS

mmtmaintenanceplanners@ergon.com

T: x:

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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