



Area
VQU
Machine Id
VQU
Component
Starboard Reduction Gear
Fluid
CHEVRON MEROPA 320 (270 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		MW0060716	MW0050881	MW0039993
Sample Date		Client Info		13 Jan 2024	20 Nov 2023	12 Oct 2023
Machine Age	hrs	Client Info		100386	0	98159
Oil Age	hrs	Client Info		12307	17013	16079
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	None
Sample Status				MARGINAL	MARGINAL	MARGINAL

WEAR

Gear wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	▲ 187	▲ 173	▲ 166
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	0
Lead	ppm	ASTM D5185m	>100	1	0	0
Copper	ppm	ASTM D5185m	>50	2	1	<1
Tin	ppm	ASTM D5185m	>10	0	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

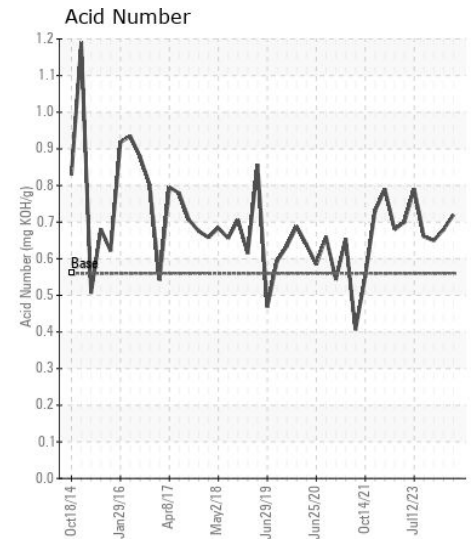
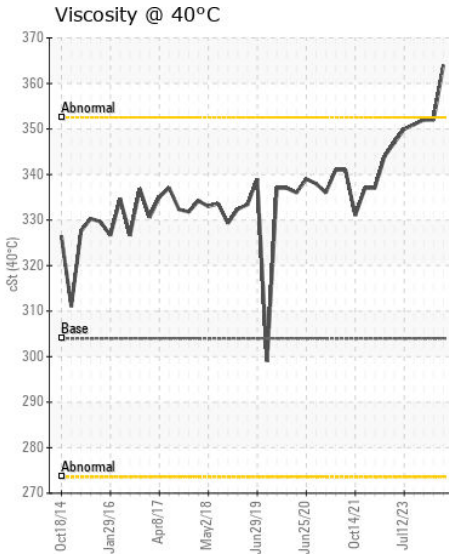
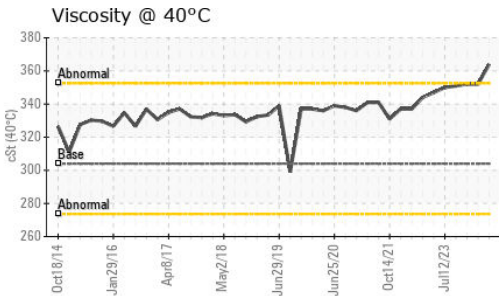
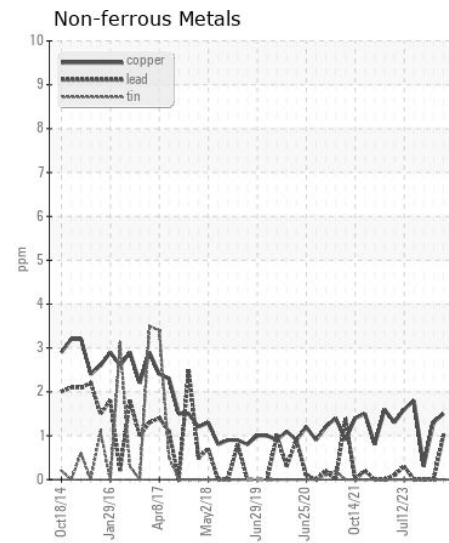
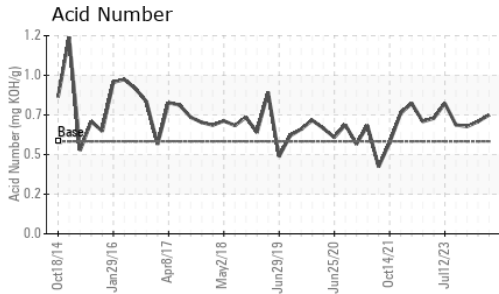
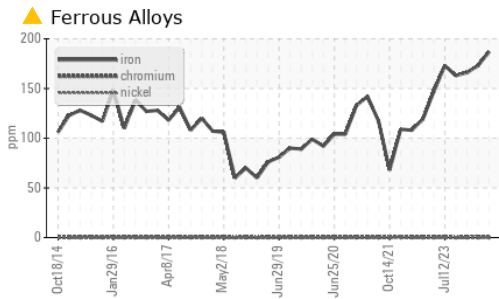
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	1	1	<1
Potassium	ppm	ASTM D5185m	>20	3	2	0
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		3	1	<1
Boron	ppm	ASTM D5185m	20	5	5	5
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	2	0
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m		2	0	0
Calcium	ppm	ASTM D5185m	25	9	50	6
Phosphorus	ppm	ASTM D5185m	235	252	256	235
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		6350	5959	5892
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	0.72	0.68	0.65
Visc @ 40°C	cSt	ASTM D445	304	364	352	352



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0060716 **Received** : 30 Jan 2024
Lab Number : 06074969 **Diagnosed** : 01 Feb 2024
Unique Number : 10857060 **Diagnostician** : Don Baldrige
Test Package : MAR 2

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Certificate L2367
 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)