



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ROLLS ROYCE SIGNET RELIANCE (S/N Z-DRIVE GEAR)

Component
Starboard Reduction Gear

Fluid
CHEVRON MEROPA 100 (275 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0052094	MW0052109	MW0034669
Sample Date		Client Info		10 Jul 2024	11 Apr 2024	24 Jan 2024
Machine Age	hrs	Client Info		26730	26506	26260
Oil Age	hrs	Client Info		1059	839	600
Filter Age	hrs	Client Info		1059	839	600
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	43	10	9
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		0	0	2
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		27	7	6
Tin	ppm	ASTM D5185m		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

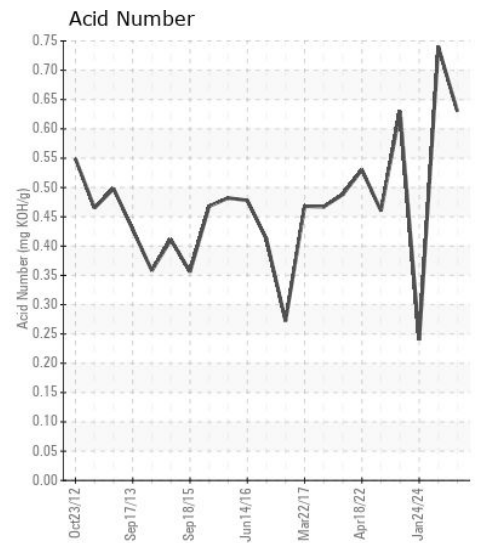
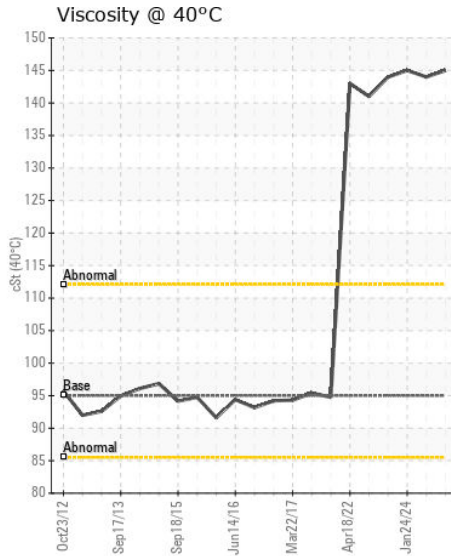
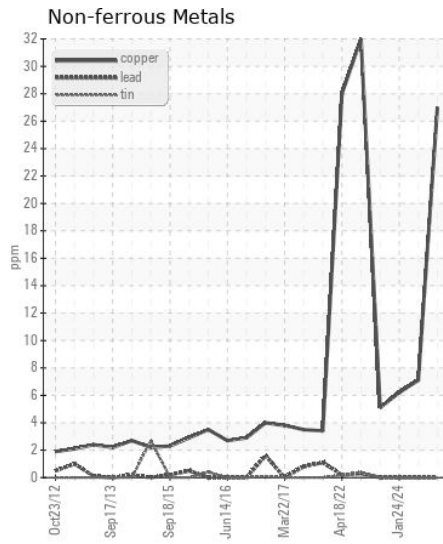
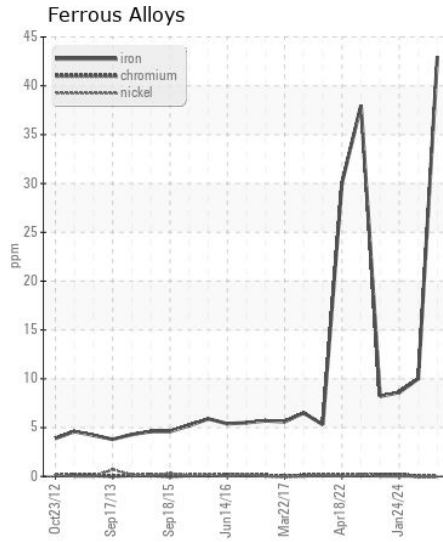
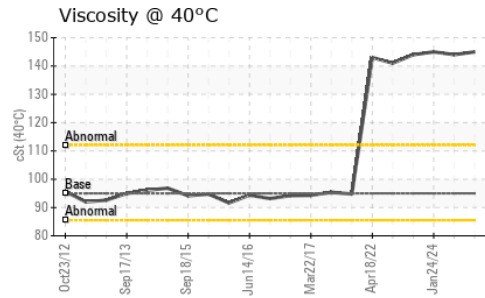
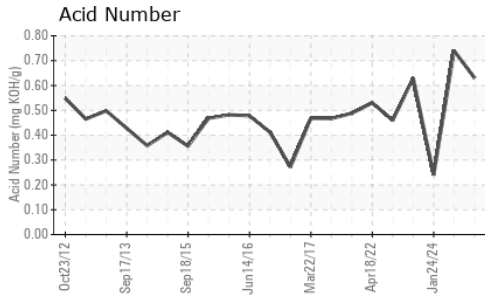
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	2	2	1
Water		WC Method	>0.2	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	>0.2	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		36	5	0
Boron	ppm	ASTM D5185m		17	20	23
Barium	ppm	ASTM D5185m		<1	0	10
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		1	<1	0
Magnesium	ppm	ASTM D5185m		4	1	2
Calcium	ppm	ASTM D5185m		20	23	12
Phosphorus	ppm	ASTM D5185m		247	254	290
Zinc	ppm	ASTM D5185m		5	4	0
Sulfur	ppm	ASTM D5185m		7601	8497	7520
Acid Number (AN)	mg KOH/g	ASTM D8045		0.63	0.74	0.24
Visc @ 40°C	cSt	ASTM D445	95	145	144	145



Certificate L2367

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

Sample No. : MW0052094

Lab Number : 06237966

Unique Number : 11126800

Test Package : MAR 2

Received : 16 Jul 2024

Tested : 17 Jul 2024

Diagnosed : 18 Jul 2024 - Sean Felton

MARITIME COMPANY

3802 PORT RIVER RD

PASCAGOULA, MS

US 39567

Contact: TERRY SCUDDER

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T:

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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