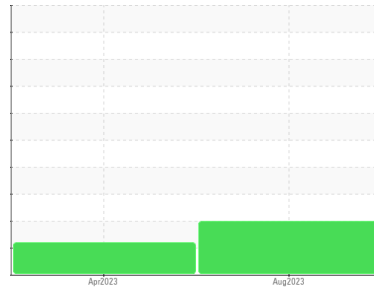


PROBLEM SUMMARY

Sample Rating Trend



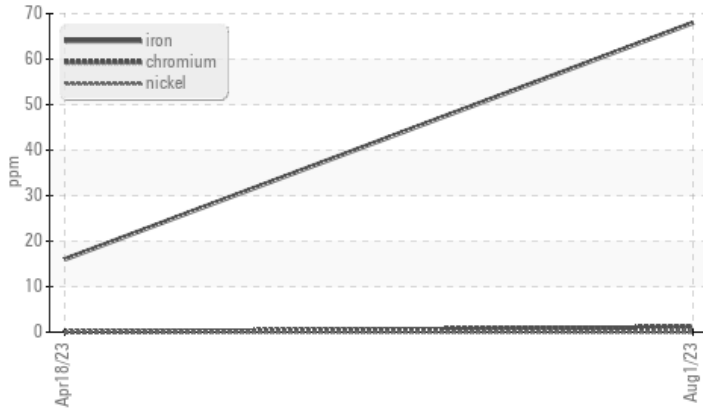
VISUAL METAL



Machine Id
MLU-1
Component
Outboard Pump
Fluid
CHEVRON REGAL OIL R&O 32 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>90	▲ 68	16	---
White Metal	scalar	*Visual	NONE	▲ MODER	NONE	---

Customer Id: ENESPA
Sample No.: RP0032139
Lab Number: 05927321
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

18 Apr 2023 Diag: Jonathan Hester

VISUAL METAL



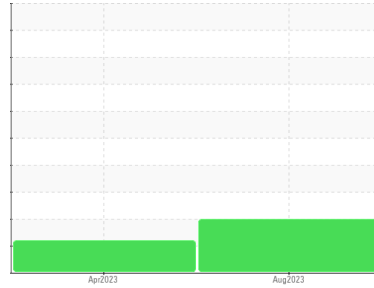
We suspect abnormal metal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor. Moderate concentration of visible metal present. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL



Machine Id
MLU-1

Component
Outboard Pump

Fluid
CHEVRON REGAL OIL R&O 32 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The iron level is marginal. Moderate concentration of visible metal present.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		RP0032139	RP0033399	---
Sample Date	Client Info		01 Aug 2023	18 Apr 2023	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >90	▲ 68	16	---
Chromium	ppm	ASTM D5185m >5	1	0	---
Nickel	ppm	ASTM D5185m >5	0	0	---
Titanium	ppm	ASTM D5185m >3	<1	0	---
Silver	ppm	ASTM D5185m >3	0	0	---
Aluminum	ppm	ASTM D5185m >7	<1	<1	---
Lead	ppm	ASTM D5185m >12	<1	0	---
Copper	ppm	ASTM D5185m >30	12	23	---
Tin	ppm	ASTM D5185m >9	2	0	---
Vanadium	ppm	ASTM D5185m	<1	<1	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	2	<1	---
Manganese	ppm	ASTM D5185m	<1	<1	---
Magnesium	ppm	ASTM D5185m	6	2	---
Calcium	ppm	ASTM D5185m	92	43	---
Phosphorus	ppm	ASTM D5185m	359	234	---
Zinc	ppm	ASTM D5185m	436	280	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >60	1	<1	---
Sodium	ppm	ASTM D5185m	4	5	---
Potassium	ppm	ASTM D5185m >20	1	0	---
Water	%	ASTM D6304	0.002	0.003	---
ppm Water	ppm	ASTM D6304 >.1	23.7	34.9	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.24	---

VISUAL




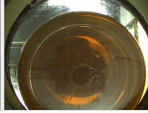
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	▲ MODER	NONE	---
Yellow Metal	scalar	*Visual NONE	NONE	▲ MODER	---
Precipitate	scalar	*Visual NONE	NONE	NONE	---
Silt	scalar	*Visual NONE	NONE	NONE	---
Debris	scalar	*Visual NONE	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	---
Appearance	scalar	*Visual NORML	NORML	NORML	---
Odor	scalar	*Visual NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	NEG	NEG	---
Free Water	scalar	*Visual	NEG	---	---

OIL ANALYSIS REPORT

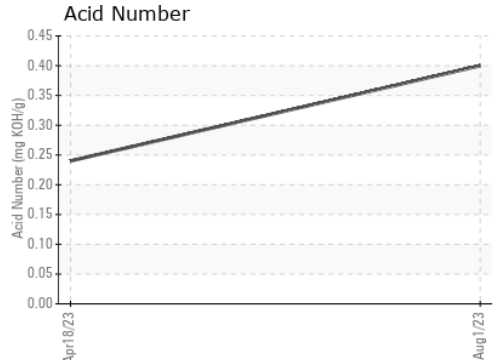
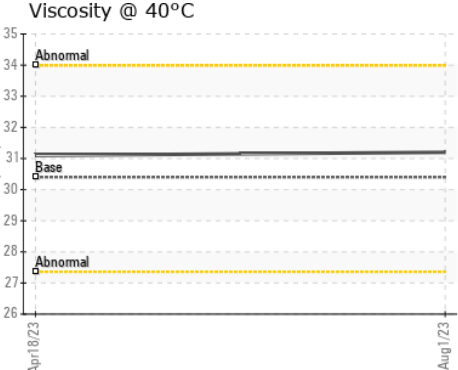
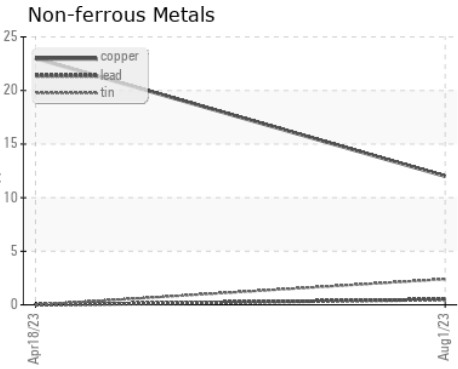
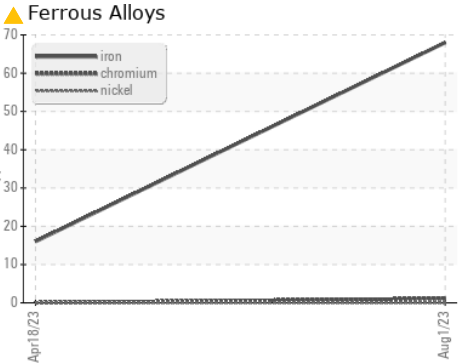
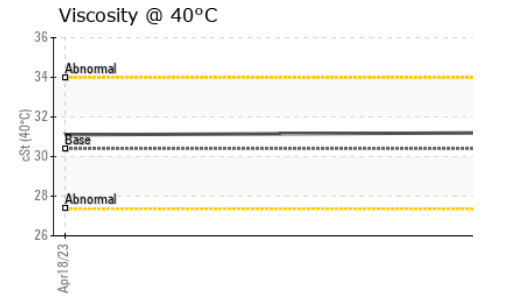
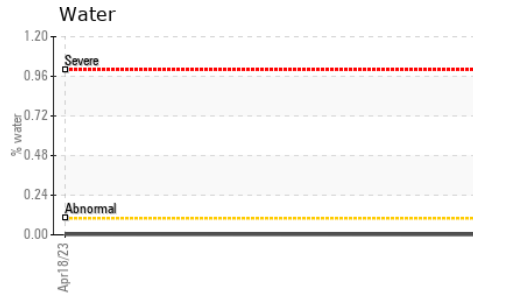
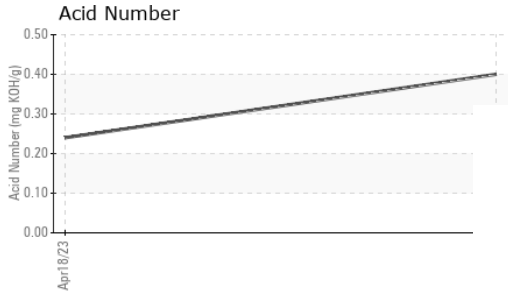
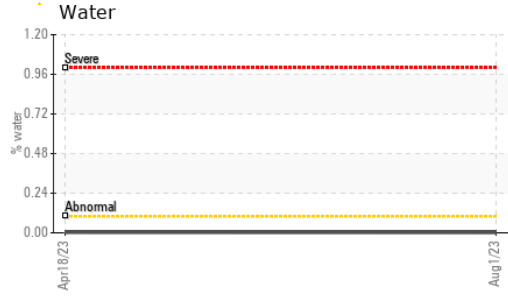
FLUID PROPERTIES method limit/base current history1 history2

Visc @ 40°C cSt ASTM D445 30.4 **31.2** 31.1 ---

SAMPLE IMAGES method limit/base current history1 history2

Color			no image
Bottom			no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0032139 **Received** : 17 Aug 2023
Lab Number : 05927321 **Diagnosed** : 21 Aug 2023
Unique Number : 10607268 **Diagnostician** : Jonathan Hester
Test Package : IND 2

ENERGY TRANSFER - SPEARVILLE
 126 FIRE TOWER RD
 SPEARVILLE, LA
 US 71277
 Contact: Service Manager

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)

T:
F: