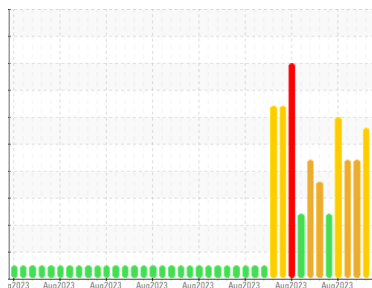




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
Bluewater SPM Monoboya 3
 Component
LBGS-2(270deg)

DIAGNOSIS

Recommendation

Vuelva a muestrear en el siguiente intervalo de servicio para monitorear. Especifique la marca, el tipo y la viscosidad del aceite en su próxima muestra.

Wear

Todas las tasas de desgaste de los componentes son normales.

Contamination

No hay indicios de contaminación en el oil.

Fluid Condition

El nivel de acidez es aceptable para este fluido. La condición del oil es adecuada para continuar en servicio.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			UCZ05995087	LL023081001	LL023081002
Sample Date	Client Info			10 Oct 2023	06 Aug 2023	06 Aug 2023
Machine Age	hrs	Client Info		17394	---	---
Oil Age	hrs	Client Info		1500	---	---
Oil Changed	Client Info			Not Chngd	Not Chngd	Not Chngd
Sample Status				NORMAL	NORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		0	77	199
Chromium	ppm	ASTM D5185m		0	1	3
Nickel	ppm	ASTM D5185m		0	1	3
Titanium	ppm	ASTM D5185m		0	1	1
Silver	ppm	ASTM D5185m		0	1	1
Aluminum	ppm	ASTM D5185m		<1	9	▲ 16
Lead	ppm	ASTM D5185m		0	2	2
Copper	ppm	ASTM D5185m		1	1	1
Tin	ppm	ASTM D5185m		<1	1	5
Vanadium	ppm	ASTM D5185m		0	1	1
Cadmium	ppm	ASTM D5185m		0	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1	6	10
Barium	ppm	ASTM D5185m		0	1	13
Molybdenum	ppm	ASTM D5185m		0	1	1
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		0	8	112
Calcium	ppm	ASTM D5185m		0	1600	2629
Phosphorus	ppm	ASTM D5185m		377	23	23
Zinc	ppm	ASTM D5185m		6	484	915
Sulfur	ppm	ASTM D5185m		700	---	---

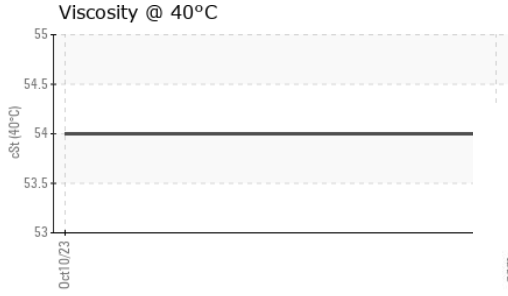
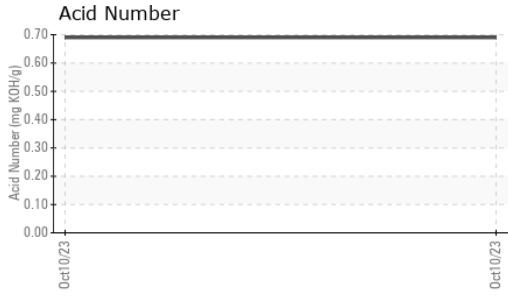
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		2	11	16
Sodium	ppm	ASTM D5185m		2	30	1578
Potassium	ppm	ASTM D5185m	>20	0	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.69	---	---


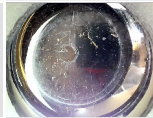
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE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



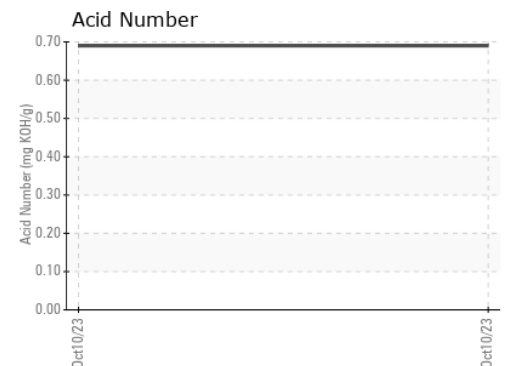
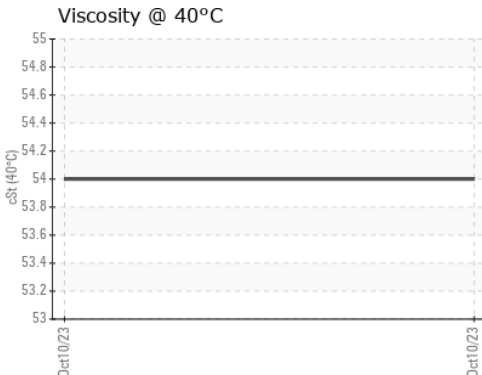
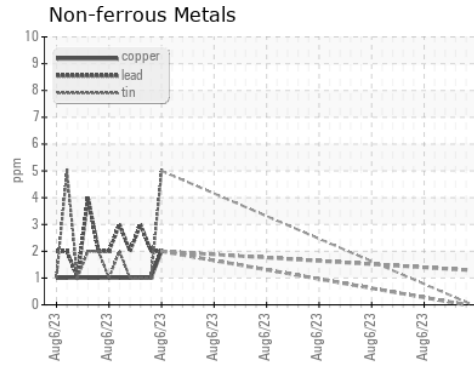
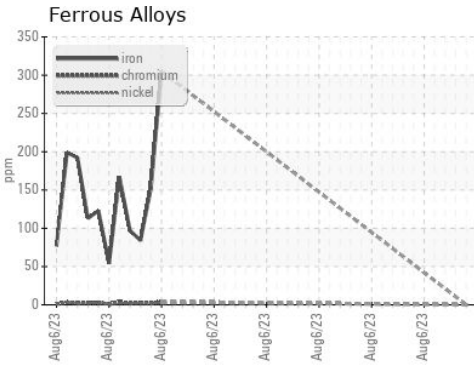
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	54.0	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCZ05995087
Lab Number : 05995087
Unique Number : 10723447
Test Package : IND 2

Received : 31 Oct 2023
Diagnosed : 03 Nov 2023
Diagnostician : Jonathan Hester
Van Oord Marine Ingenuity / LIBRAMIENTO
 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)