

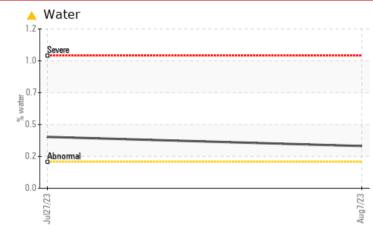
PROBLEM SUMMARY

Area OCEAN VOYAGER Machine Id [OCEAN VOYAGER] OCEAN VOYAGER - Z-DRIVE

Port Gearbox

FUCHS RENOLIN UNISYN CLP 150 (1600 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC	TEST RE	SULTS				
Sample Status				SEVERE	ABNORMAL	
Water	%	ASTM D6304	>0.2	A 0.318	0.387	
ppm Water	ppm	ASTM D6304	>2000	A 3180	A 3870	
Silt	scalar	*Visual	NONE	🔺 HEAVY	NONE	
Appearance	scalar	*Visual	NORML	🔺 HAZY	NORML	
Free Water	scalar	*Visual		e >10%	NEG	

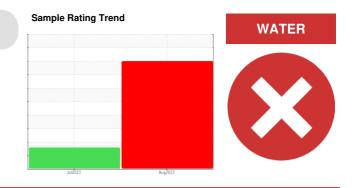
Customer Id: VICNEWIN Sample No.: WC0824816 Lab Number: 05922903 Test Package: MAR 2



To manage this report scan the QR code

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

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



RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Water Access			?	We advise that you check for the source of water entry.			

HISTORICAL DIAGNOSIS

WATER

27 Jul 2023 Diag: Jonathan Hester

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

Area OCEAN VOYAGER Machine Id [OCEAN VOYAGER] OCEAN VOYAGER - Z-DRIVE

Port Gearbox

FUCHS RENOLIN UNISYN CLP 150 (1600 LTR)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Appearance is hazy. Excessive free water present. There is a moderate concentration of water present in the oil. There is a high amount of visible silt present in the sample.

Fluid Condition

The AN level is acceptable for this fluid.

		L	Jul2023	Aug2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0824816	WC0824807	
Sample Date		Client Info		07 Aug 2023	27 Jul 2023	
Machine Age	hrs	Client Info		15844	23711	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				SEVERE	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	26	20	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	<1	<1	
Lead	ppm	ASTM D5185m	>50	0	0	
Copper	ppm	ASTM D5185m	>200	2	<1	
Tin	ppm	ASTM D5185m	>10	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
oddinidini	PPIII	AGTIM DOTODIT		0	0	
ADDITIVES	ppm	method	limit/base	current	history1	history2
	ppm		limit/base	-	-	
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 0	history2
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 0 0	history1 0 0	history2
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 0 <1 3	history1 0 0 0	history2
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 0 <1	history1 0 0 0 0 0	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 0 <1 3 6 228	history1 0 0 0 0 5	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 0 <1 3 6	history1 0 0 0 0 0 5 30	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 0 <1 3 6 228	history1 0 0 0 0 0 5 30 249	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 0 0 <1 3 6 228 5 	history1 0 0 0 0 0 5 30 249 29	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		Current 0 0 0 0 <1 3 6 228 5 10611	history1 0 0 0 0 5 30 249 29 11231	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 0 <1 3 6 228 5 10611 Current	history1 0 0 0 0 0 0 0 0 10 0 0 0 0 0 10 249 29 11231 history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base	Current 0 0 0	history1 0 29 11231 history1 <1	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base >50	Current 0 0 0 0 <1 3 6 228 5 10611 Current <1 1	history1 0	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >50 >20	Current 0 0 0 0 <1 3 6 228 5 10611 Current <1 1 <1 	history1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 <1 0	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >50 >20 >0.2	Current 0 0 0 <1 3 6 228 5 10611 current <1 1 <1 <1 0 0 0 0 0 0.318	history1 0 0 0 0 0 30 249 29 11231 history1 <1 <1 0 0 0 0 0.387	history2 history2 history2

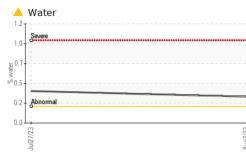
Sample Rating Trend

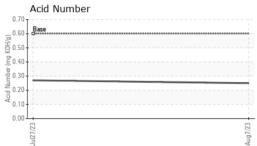
WATER

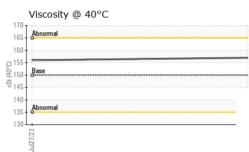
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OIL ANALYSIS REPORT







	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	Silt	scalar	*Visual	NONE	A HEAVY	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
60 E	Appearance	scalar	*Visual	NORML	🔺 HAZY	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	0.2%	▲ 0.2%	
	Free Water	scalar	*Visual		 >10%	NEG	
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	150	157	156	
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
CDTerry	Color						no image
	Bottom						no image
		als		Aug7/23			
	Non-ferrous Meta						
	Viscosity @ 40°C			Aug7/23	Acid Number		
	Viscosity @ 40°C						
	Viscosity @ 40°C						
	Viscosity @ 40°C						
	Viscosity @ 40°C			(b)HOX 0.6 (b)HOX 0.6 (b)HOX 0.0 (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Base 0 - Base 0		
	Viscosity @ 40°C				Base 0 - Base 0		

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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