

Machine Id LOUISIANA PURCHASE mponent **Starboard Steering** CHEVRON RANDO HD 32 (40 GAL)

RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

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All component wear rates are normal.

CONTAMINATION

There is a high amount of particulates present in the fluid.

FLUID CONDITION

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

Sample NumberClient InfoMW0042837Sample DateClient Info25 Jan 2024Machine AgehrsClient Info0Oil AgehrsClient Info0Filter AgehrsClient Info0Oil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusABNORMAL	
Sample DateClient Info25 Jan 2024Machine AgehrsClient Info0Oil AgehrsClient Info0Filter AgehrsClient Info0Oil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusABNORMAL	
Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Filter Age hrs Client Info 0 Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status ABNORMAL	
Oil Age hrs Client Info 0 Filter Age hrs Client Info 0 Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status ABNORMAL	
Filter Age hrs Client Info 0 Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status ABNORMAL	-
Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status ABNORMAL	-
Filter Changed Client Info N/A Sample Status ABNORMAL	
Sample Status ABNORMAL	-
	-
Iron ppm ASTM D5185m >50 <1	
Chromium ppm ASTM D5185m >15 0	
Nickel ppm ASTM D5185m >5 0	
Titanium ppm ASTM D5185m 0	
Silver ppm ASTM D5185m 0	
Aluminum ppm ASTM D5185m >5 0	
Lead ppm ASTM D5185m >10 0	
Copper ppm ASTM D5185m >50 1	
Tin ppm ASTM D5185m >5 0	
Vanadium ppm ASTM D5185m 0	
White Metal scalar *Visual NONE NONE	
Yellow Metal scalar *Visual NONE NONE	
Silicon ppm ASTM D5185m >15 8	
Potassium ppm ASTM D5185m >20 0	
Water WC Method >0.2 NEG	
Particles >4μm ASTM D7647 >2500 Δ 26756	
Particles >6μm ASTM D7647 >640 4 7009	
Particles >14μm ASTM D7647 >80 Δ 526	
Particles >21µm ASTM D7647 >20 ▲ 157	
Particles >38µm ASTM D7647 >4 ▲ 7	
Particles >71μm ASTM D7647 >3 0	
Oil Cleanliness ISO 4406 (c) >18/16/13 🔺 22/20/16	
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 >0.2 NEG	
Sodium ppm ASTM D5185m <1	
Boron ppm ASTM D5185m 0	
Barium ppm ASTM D5185m <1	
Molybdenum ppm ASTM D5185m 0	
Manganese ppm ASTM D5185m <1	
Magnesium ppm ASTM D5185m <1	
Calcium ppm ASTM D5185m 19	
Phosphorus ppm ASTM D5185m 253	
Zinc ppm ASTM D5185m 299	
Sulfur ppm ASTM D5185m 607	
Acid Number (AN) mg KOH/g ASTM D8045 0.57	
Visc @ 40°C cSt ASTM D445 30.4 32.5	

WEAR

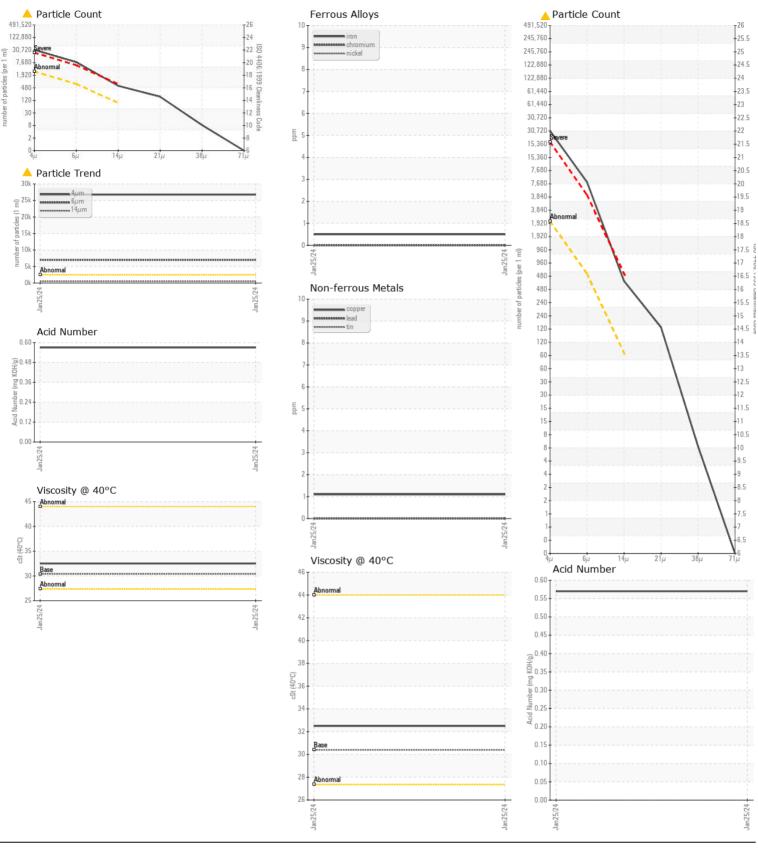
CONTAMINATION

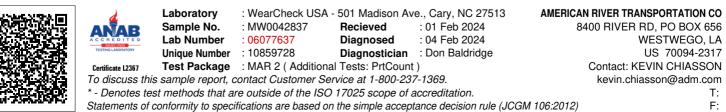
FLUID CONDITION

NORMAL

ABNORMAL

NORMAL





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Contact/Location: KEVIN CHIASSON - AMEWAG