

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

HORIZON MARITIME SERVICES LTD. - K.J. GARDNER

Port FRC DAVIT (S/N K5594)

1 Hydraulic System

CASTROL HYSPIN AWH-M ISO 32 (350 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MAR 2 test kits, this testkit includes Particle Count to determine the ISO cleanliness of the fluid. this testkit includes AN to determine the suitability of the oil for continued use.

WEAR

All component wear rates are normal.

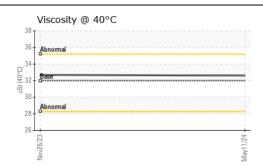
CONTAMINATION

There is no indication of any contamination in the component(unconfirmed).

FLUID CONDITION

The condition of the oil is acceptable for the time in service (unconfirmed).

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0787230	WC0787214	
Sample Date		Client Info		11 May 2024	26 Nov 2023	
Machine Age	hrs	Client Info		88	0	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	NORMAL	
			00	 -	4	
Iron Chromium	ppm	ASTM D5185(m)	>20	<1	<1 0	
	ppm	ASTM D5185(m)	>10	0	-	
Nickel	ppm	ASTM D5185(m)	>10	0	<1 0	
Titanium Silver	ppm	ASTM D5185(m)			0	
	ppm	ASTM D5185(m)	. 10	0	-	
Aluminum	ppm	ASTM D5185(m)	>10	0	<1	
Lead	ppm	ASTM D5185(m)	>10	-	<1	
Copper	ppm	ASTM D5185(m)	>75	<1 0	<1	
Tin	ppm	ASTM D5185(m)	>10	-	0	
Vanadium	ppm	ASTM D5185(m)				
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185(m)	>20	0	0	
Potassium	ppm	ASTM D5185(m)	>20	0	<1	
Water		WC Method	>0.1	NEG	NEG	
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	NONE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	
Codium				•	0	
Sodium Boron	ppm	ASTM D5185(m)		0	0	
Boron Barium	ppm	ASTM D5185(m)		<1 0	0	
	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0	0	
Manganese Magnesium	ppm	ASTM D5185(m) ASTM D5185(m)		0	0	
WALLESILL	ppm	. ,		<1 62	<1 65	
-	nnm				();)	
Calcium	ppm	ASTM D5185(m)				
Calcium Phosphorus	ppm	ASTM D5185(m)		296	298	
Calcium Phosphorus Zinc	ppm ppm	ASTM D5185(m) ASTM D5185(m)		296 354	298 362	
Calcium Phosphorus	ppm	ASTM D5185(m)	32.0	296	298	



Ferrous Alloys 10 mdd 0 Mav11 Non-ferrous Metals 10 lead maa Viscosity @ 40°C 31 3! 3 33 cSt (40°C) 3 30 29 21 May11/24

