WEAR CONTAMINATION FLUID CONDITION

NORMAL ATTENTION MARGINAL

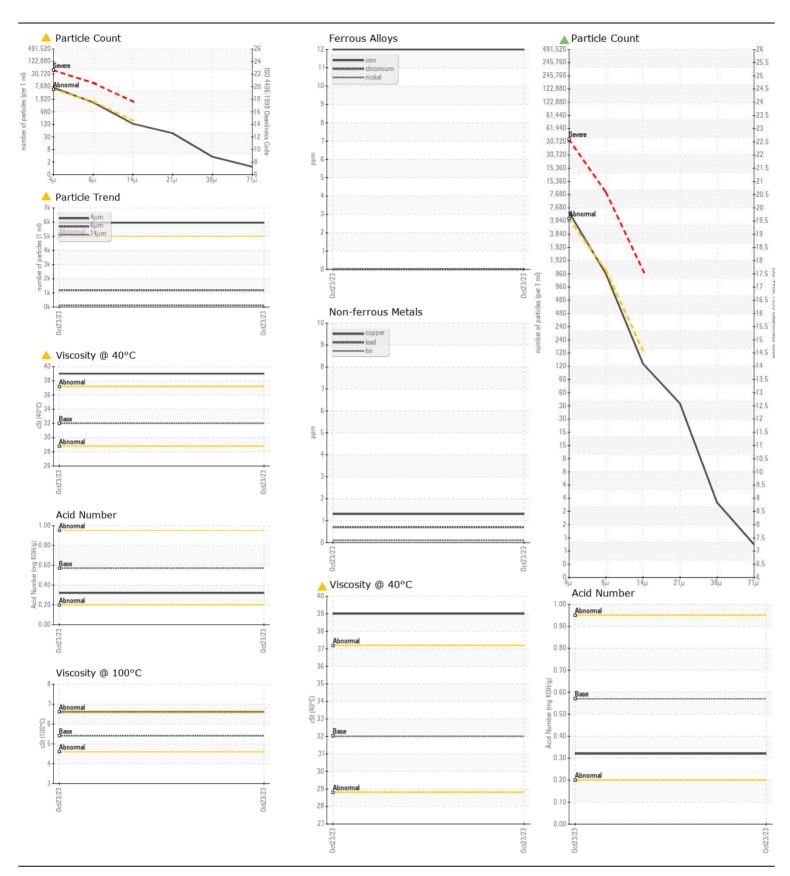
Machine Id

HIAB 6188

Component Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- GAL)

ANTITIDITACEIO CIE 100 CE (CAE)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0833594		
No corrective action is recommended at this time. The filter change at	Sample Date		Client Info		23 Oct 2023		
the time of sampling has been noted. Resample at the next service	Machine Age	yrs	Client Info		5		
interval to monitor.	Oil Age	yrs	Client Info		5		
	Filter Age	yrs	Client Info		1		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
WEAR	Iron	ppm	ASTM D5185m	>20	12		
	Chromium	ppm	ASTM D5185m	>10	0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	<1		
	Lead	ppm	ASTM D5185m	>10	<1		
	Copper	ppm	ASTM D5185m	>75	1		
	Tin	ppm	ASTM D5185m	>10	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	1		
	Potassium	ppm	ASTM D5185m	>20	<1		
There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.	Water		WC Method	>0.1	NEG		
	Particles >4μm		ASTM D7647	>5000	5953		
	Particles >6µm		ASTM D7647	>1300	1188		
	Particles >14μm		ASTM D7647	>160	113		
	Particles >21μm		ASTM D7647	>40	40		
	Particles >38μm		ASTM D7647	>10	3		
	Particles >71μm		ASTM D7647	>3	1		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/17/14		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
	0 "						
FLUID CONDITION	Sodium	ppm	ASTM D5185m	-	<1		
Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.	Boron	ppm	ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	5	0		
	Manganese	ppm	ASTM D5185m	0.5	<1		
	Magnesium	ppm	ASTM D5185m		2		
	Calcium	ppm	ASTM D5185m		52		
	Phosphorus	ppm	ASTM D5185m		330		
	Zinc	ppm	ASTM D5185m	370	399		
	Sulfur	ppm	ASTM D5185m		949		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.32		
	Visc @ 40°C	cSt	ASTM D445		<u> </u>		
	Visc @ 100°C	cSt	ASTM D445		6.6		
	Viscosity Index (VI)	Scale	ASTM D2270	102	123		





Certificate L2367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06099123

: WC0833594

Received **Tested** Unique Number: 10897353 Test Package : MOB 2 (Additional Tests: KV100, VI)

: 28 Feb 2024 Diagnosed

: 23 Feb 2024

: 28 Feb 2024 - Jonathan Hester

Contact: RON SCALERA ron.scalera@hiab.com

HIAB USA - ROCHESTER

1005 CHILI AVE STE 1

ROCHESTER, NY

US 14611-2807

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: