

# **PROBLEM SUMMARY**

Sample Rating Trend

VISCOSITY



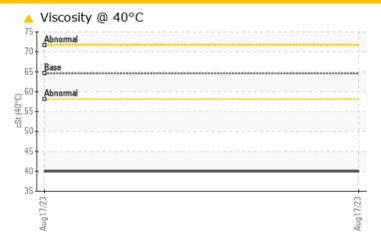
# Hiab Hiab 358E-5

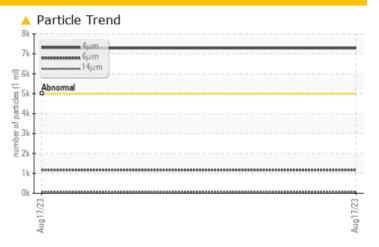
Component

**Tank Hydraulic System** 

**CHEVRON HYDRAULIC AW ISO 68 (45 GAL)** 

## **COMPONENT CONDITION SUMMARY**





## RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status				ATTENTION						
Particles >4µm		ASTM D7647	>5000	<b>7281</b>						
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>						
Visc @ 40°C	cSt	ASTM D445	64.6	<b>40.0</b>						

Customer Id: PALALT Sample No.: WC0780298 Lab Number: 05936629 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

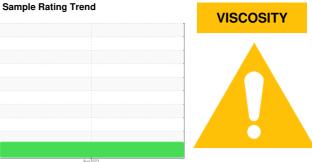
## RECOMMENDED ACTIONS

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**



Machine Id Hiab Hiab 358E-5

Component

**Tank Hydraulic System** 

**CHEVRON HYDRAULIC AW ISO 68 (45 GA** 

## **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

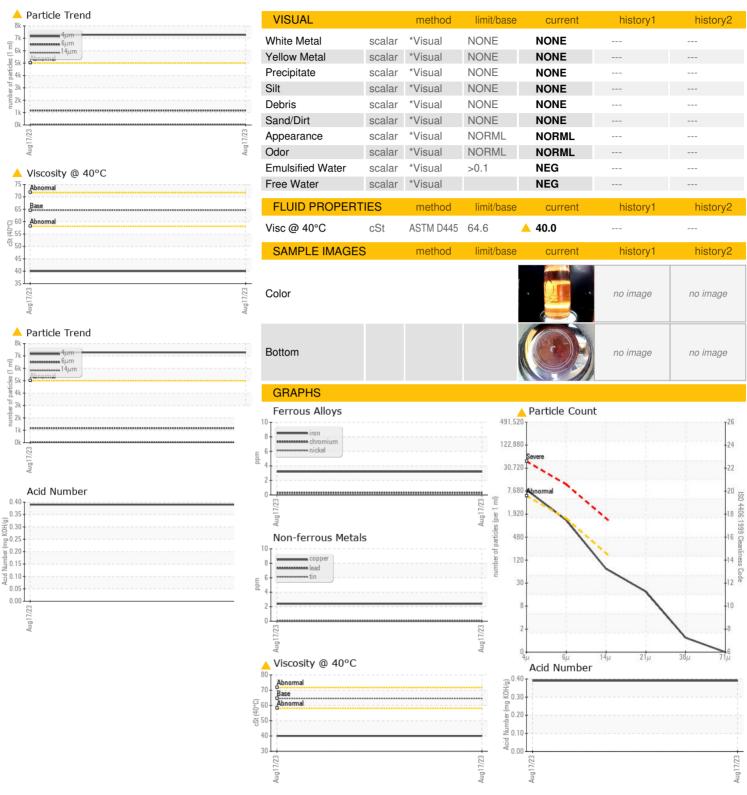
## Fluid Condition

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

L)				Aug <sup>2</sup> 023		`
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0780298		
Sample Date		Client Info		17 Aug 2023		
Machine Age	hrs	Client Info		2247		
Oil Age	hrs	Client Info		2247		
Oil Changed		Client Info		N/A		
Sample Status				ATTENTION		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>10	<1		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	2		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		3		
Calcium	ppm	ASTM D5185m		174		
Phosphorus	ppm	ASTM D5185m		407		
Zinc	ppm	ASTM D5185m		512		
Sulfur	ppm	ASTM D5185m		5057		
CONTAMINANTS	}	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>▲ 7281</b>		
Particles >6μm		ASTM D7647	>1300	1170		
Particles >14µm		ASTM D7647	>160	63		
Particles >21µm		ASTM D7647	>40	16		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/17/13		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.39		



# **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: WC0780298 : 05936629 : 10621900 Test Package : CONST

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.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Aug 2023 Diagnosed Diagnostician

: 29 Aug 2023 : Don Baldridge

ALTHA, FL US 32421 Contact: CHUCK GOAD ch.goad@palfinger.com T: (850)771-5638

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

**PALFINGER USA LLC** 

19585 NW ZACK SEGERS LN