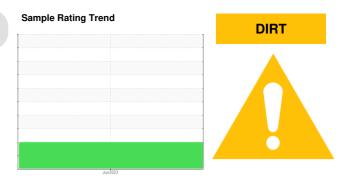


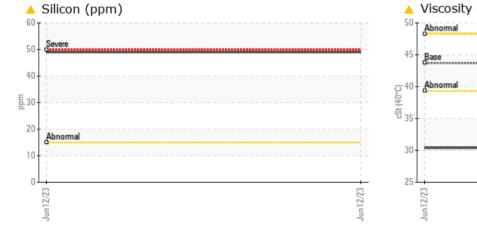
# **PROBLEM SUMMARY**



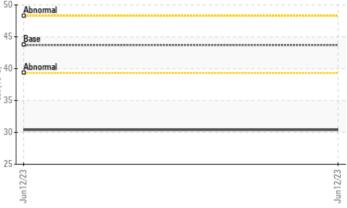
## Z-HPU-2 Component

**Hydraulic System** CHEVRON HYDRAULIC OIL AW ISO 46 (100 GAL)

## COMPONENT CONDITION SUMMARY



## Viscosity @ 40°C



## RECOMMENDATION

We advise that you inspect the component for seal deterioration. Please confirm the lubricant listed in this report is the correct lubricant for replenishment of this system and is suggested by the OEM or overhaul facility. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL					
Silicon	ppm	ASTM D5185m	>15	<u> </u>					
Visc @ 40°C	cSt	ASTM D445	43.7	<b>A</b> 30.4					
PrtFilter					no image	no image			

#### Customer Id: ZEMCOM Sample No.: PH0000612 Lab Number: 05876717 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Alert			?	Please confirm the lubricant listed in this report is the correct lubricant for replenishment of this system and is suggested by the OEM or overhaul facility.			
Information Required			?	Please confirm the lubricant listed in this report is the correct lubricant for replenishment of this system and is suggested by the OEM or overhaul facility.			
Check Seals			?	We advise that you inspect the component for seal deterioration.			

HISTORICAL DIAGNOSIS



Sample Rating Trend



## **Z-HPU-2** Component Hydraulic System

## CHEVRON HYDRAULIC OIL AW ISO 46 (100 GAL)

## DIAGNOSIS

### Recommendation

We advise that you inspect the component for seal deterioration. Please confirm the lubricant listed in this report is the correct lubricant for replenishment of this system and is suggested by the OEM or overhaul facility. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

#### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type.

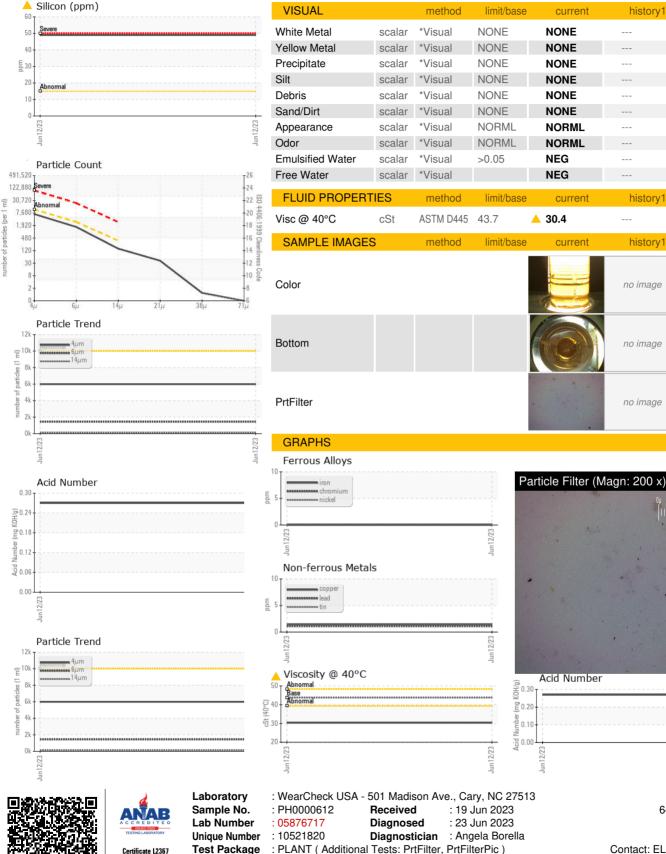


SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PH0000612		
Sample Date		Client Info		12 Jun 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Filtered		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	0		
Lead	ppm	ASTM D5185m	>20	1		
Copper	ppm	ASTM D5185m	>20	1		
Tin	ppm	ASTM D5185m	>20	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		1		
Calcium	ppm	ASTM D5185m		76		
Phosphorus	ppm	ASTM D5185m		325		
Zinc	ppm	ASTM D5185m		301		
Sulfur	ppm	ASTM D5185m		971		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<u> </u>		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	2		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	5990		
Particles >6µm		ASTM D7647	>2500	1444		
Particles >14µm		ASTM D7647	>320	132		
Particles >21µm		ASTM D7647	>80	35		
Particles >38µm		ASTM D7647	>20	1		
Particles >71µm		ASTM D7647	>4	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	20/18/14		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.27		





# **OIL ANALYSIS REPORT**



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.

6431 FLOTILLA ST COMMERCE, CA US 90040 Contact: ELIZABETH MAYER ELIZABETH.MEYER42@GMAIL.COM T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

history1

history

history1

no image

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history2

history2

history2

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Certificate L2367

Contact/Location: ELIZABETH MAYER - ZEMCOM

ZEMARC