

# **PROBLEM SUMMARY**

Sample Rating Trend DIRT

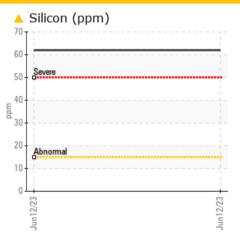


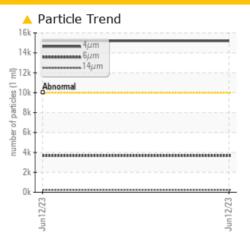
Component

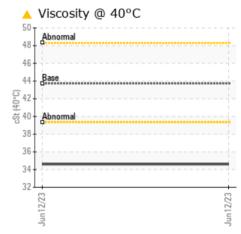
**Hydraulic System** 

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

#### **COMPONENT CONDITION SUMMARY**







#### RECOMMENDATION

Check seals and/or filters for points of contaminant entry. 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 ASTM D5185m >15 62 ppm Particles >4µm ASTM D7647 >10000 **15196** ASTM D7647 >2500 3666 Particles >6µm Oil Cleanliness ISO 4406 (c) >20/18/15 A 21/19/15 Visc @ 40°C 34.6 cSt ASTM D445 43.7 PrtFilter no image no image

Customer Id: ZEMCOM Sample No.: PH0000611 Lab Number: 05876716 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			?	Check seals and/or filters for points of contaminant entry.	

### HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

Sodium

Potassium

Acid Number (AN)

ppm

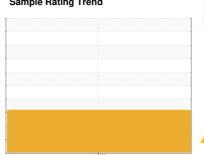
ppm

ASTM D5185m

mg KOH/g ASTM D8045

ASTM D5185m >20

Sample Rating Trend



DIRT



history2

Z-HPU-1

Component

**Hydraulic System** 

**CHEVRON HYDRAULIC OIL AW ISO 46 (10** 

#### DIAGNOSIS

### Recommendation

Check seals and/or filters for points of contaminant entry. 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

There is a moderate amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

#### Fluid Condition

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

00 GAL)				Jun2023	
SAMPLE INFORMA	ATION	method	limit/base	current	history
Sample Number		Client Info		PH0000611	
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	history
Iron	ppm	ASTM D5185m	>20	<1	
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		mothod	limit/baco	ourront	hictory

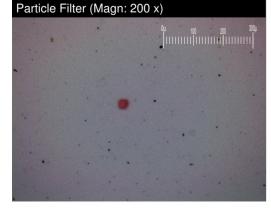
ADDITIVES		memod	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Current	HISTORY	HISTORYZ
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		1		
Calcium	ppm	ASTM D5185m		97		
Phosphorus	ppm	ASTM D5185m		420		
Zinc	ppm	ASTM D5185m		395		
Sulfur	ppm	ASTM D5185m		1222		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	62		

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>15196</b>		
Particles >6µm	ASTM D7647	>2500	<b>△</b> 3666		
Particles >14µm	ASTM D7647	>320	231		
Particles >21µm	ASTM D7647	>80	45		
Particles >38µm	ASTM D7647	>20	3		
Particles >71µm	ASTM D7647	>4	0		
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<u> </u>		
FLUID DEGRADATION	method	limit/base	current	history1	history2

0

2

0.28





### **OIL ANALYSIS REPORT**

