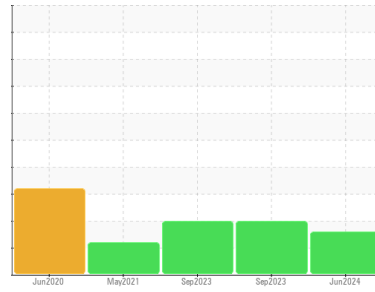




# OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id  
**5.3.31 SOUTH DYNO CELL 9**  
 Component  
**Hydraulic System**  
 Fluid  
**CHEVRON REGAL OIL R&O 68 (200 GAL)**

## DIAGNOSIS

### ● Recommendation

Resample at the next service interval to monitor.

### ▲ Wear

Bearing and/or bushing wear is indicated.

### ● Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>USP0015001</b>	USP0006192	USP0006187
Sample Date	Client Info		<b>26 Jun 2024</b>	14 Sep 2023	13 Sep 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ATTENTION</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	<b>2</b>	1	0
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	>20	<b>8</b>	9	0
Copper	ppm	ASTM D5185m	>20	<b>▲ 29</b>	▲ 30	1
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185m		<b>2</b>	40	1
Phosphorus	ppm	ASTM D5185m		<b>330</b>	320	18
Zinc	ppm	ASTM D5185m		<b>10</b>	28	4
Sulfur	ppm	ASTM D5185m		<b>11527</b>	11818	1880

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	<b>3</b>	2	<1
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Water	%	ASTM D6304	>0.05	<b>0.003</b>	0.004	0.004
ppm Water	ppm	ASTM D6304	>500	<b>27</b>	44	43

## FLUID CLEANLINESS

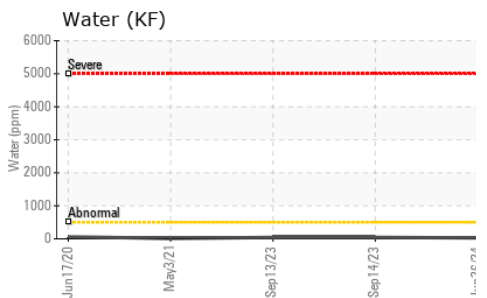
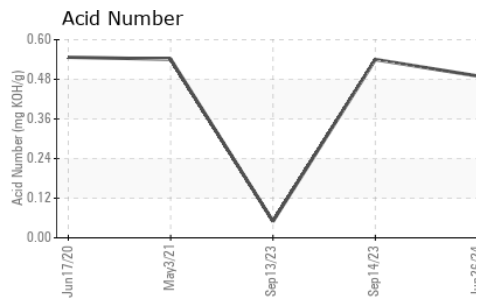
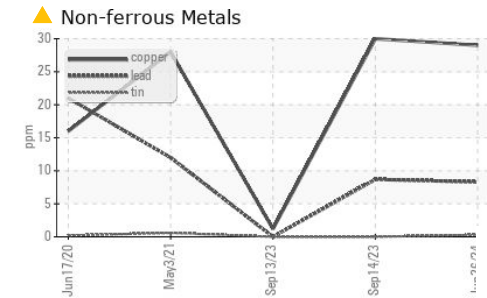
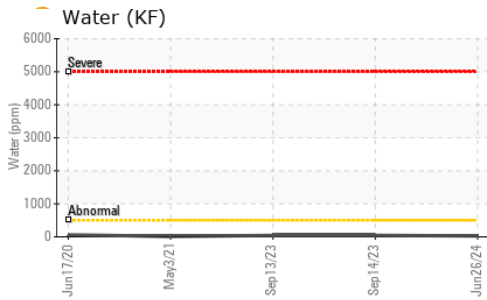
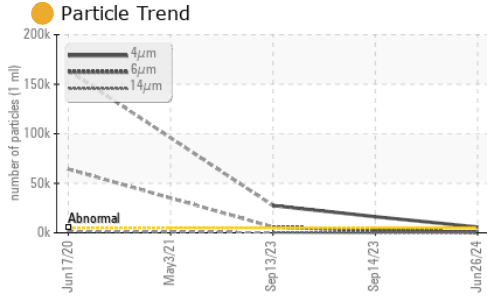
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>● 5806</b>	▲ 16232	▲ 27599
Particles >6µm	ASTM D7647	>1300	<b>652</b>	● 2208	▲ 5851
Particles >14µm	ASTM D7647	>160	<b>7</b>	65	▲ 403
Particles >21µm	ASTM D7647	>40	<b>1</b>	20	▲ 106
Particles >38µm	ASTM D7647	>10	<b>0</b>	1	4
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>● 20/17/10</b>	▲ 21/18/13	▲ 22/20/16

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.49</b>	0.54	0.05



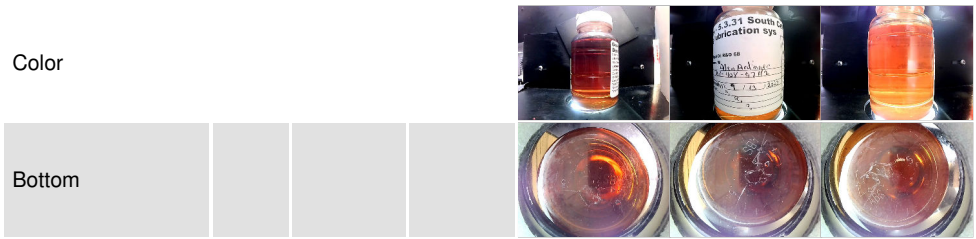
# OIL ANALYSIS REPORT



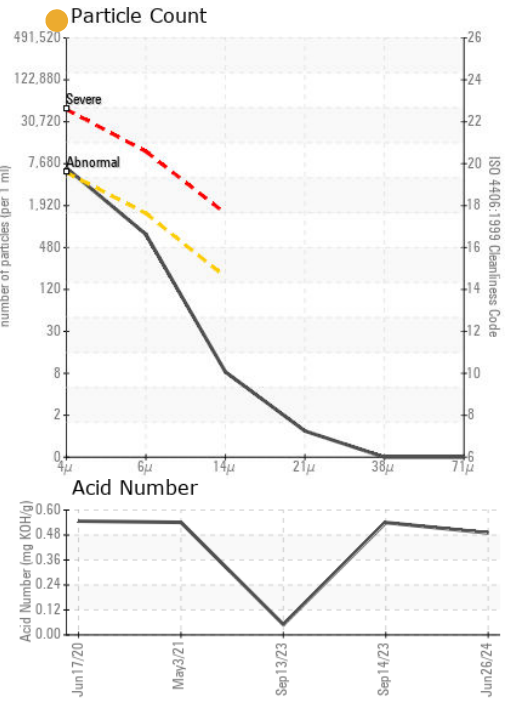
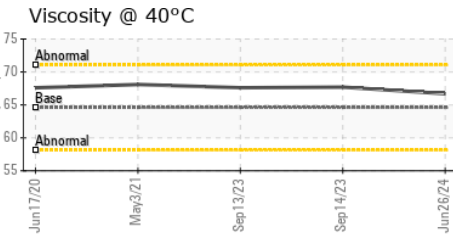
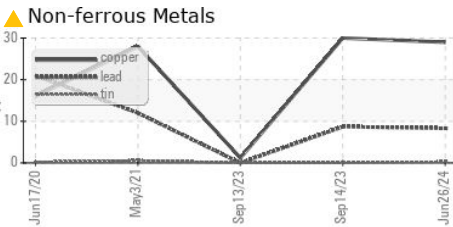
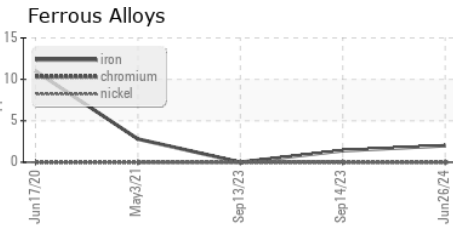
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	64.6	66.7	67.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : USP0015001  
 Lab Number : 06239167  
 Unique Number : 11128001  
 Test Package : IND 2

Received : 17 Jul 2024  
 Tested : 18 Jul 2024  
 Diagnosed : 18 Jul 2024 - Doug Bogart

US ARMY BUILDING 212 MS121  
 6501 E ELVEN MILE RD  
 WARREN, MI  
 US 48397-5000  
 Contact: BRIAN OBUCHOWSKI  
 brian.obuchowski@jacobs.com  
 T: (813)300-0543  
 F:

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)