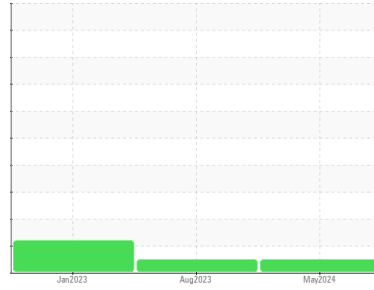




# OIL ANALYSIS REPORT

### Sample Rating Trend



**NORMAL**



Area  
**STONEWAY CONCRETE RENTON**  
 Machine Id  
**[STONEWAY CONCRETE RENTON] 10-539**  
 Component  
**Hydraulic System**  
 Fluid  
**CHEVRON RANDO HD 68 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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>PE0003291</b>	PE0002275	PE0000457	
Sample Date	Client Info	<b>30 May 2024</b>	26 Aug 2023	16 Jan 2023	
Machine Age	hrs	Client Info	<b>4105</b>	2819	1606
Oil Age	hrs	Client Info	<b>4105</b>	2819	1606
Oil Changed	Client Info	<b>N/A</b>	Not Changd	Not Changd	
Sample Status		<b>NORMAL</b>	NORMAL	ATTENTION	

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184	<b>17</b>	10	7	
Iron	ppm	ASTM D5185m >20	<b>2</b>	2	1
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >10	<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 >10	<b>0</b>	0	0
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >75	<b>11</b>	10	8
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	1
Calcium	ppm	ASTM D5185m	<b>27</b>	33	37
Phosphorus	ppm	ASTM D5185m	<b>319</b>	334	308
Zinc	ppm	ASTM D5185m	<b>396</b>	431	414
Sulfur	ppm	ASTM D5185m	<b>923</b>	1005	782

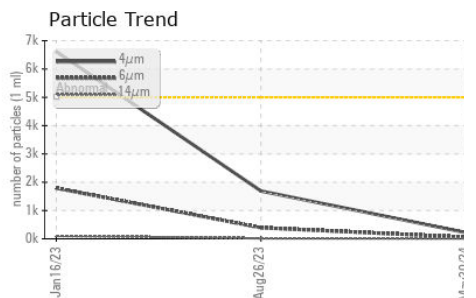
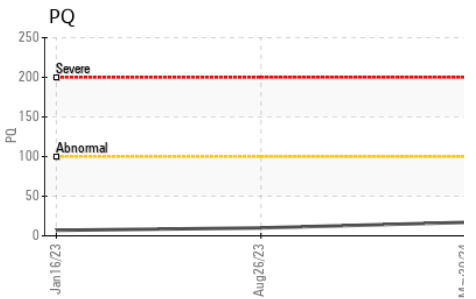
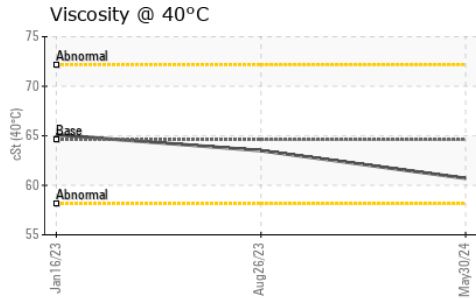
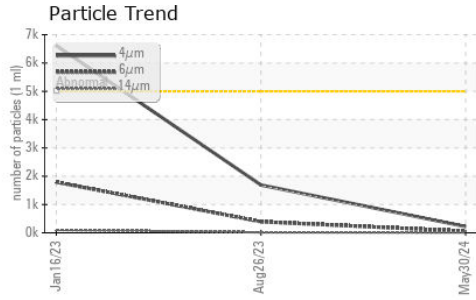
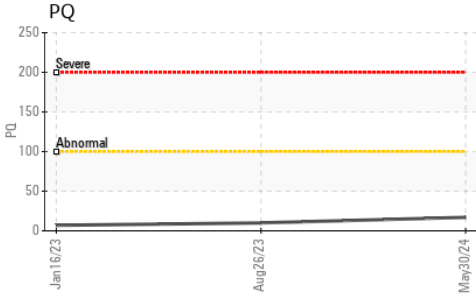
## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	1
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	0

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>221</b>	1689	6619
Particles >6µm	ASTM D7647 >1300	<b>58</b>	392	1792
Particles >14µm	ASTM D7647 >160	<b>6</b>	14	102
Particles >21µm	ASTM D7647 >40	<b>2</b>	3	21
Particles >38µm	ASTM D7647 >10	<b>0</b>	0	1
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>15/13/10</b>	18/16/11	20/18/14

# OIL ANALYSIS REPORT

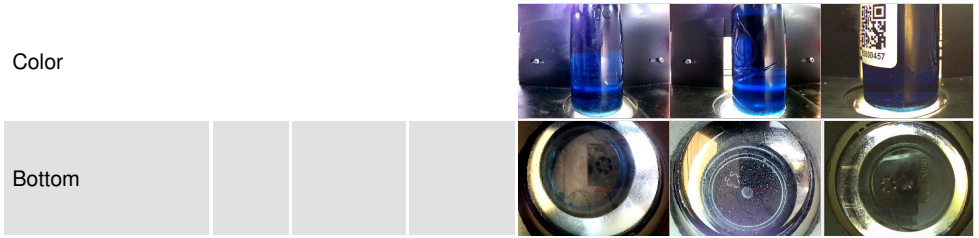


FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.41</b>	0.41	0.45

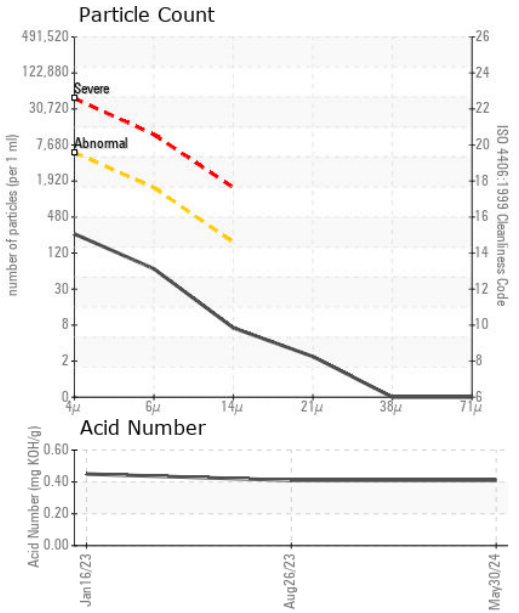
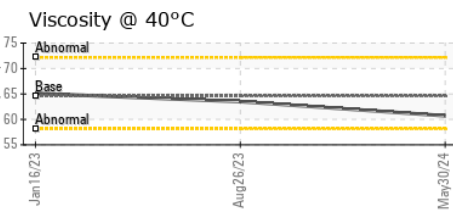
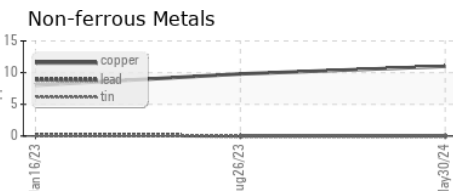
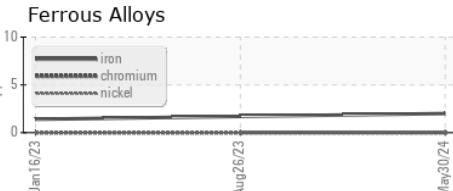
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>60.7</b>	63.5	65.1

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0003291 **Received** : 25 Jun 2024  
**Lab Number** : **06220351** **Tested** : 26 Jun 2024  
**Unique Number** : 11098548 **Diagnosed** : 27 Jun 2024 - Doug Bogart  
**Test Package** : CONST ( Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN )

**Gary Merlino Construction - Off Road Shop**  
 9125 10TH AVE SOUTH  
 SEATTLE, WA  
 US 98108  
 Contact: Tony Wytko  
 oilsamples@gmccinc.com

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)