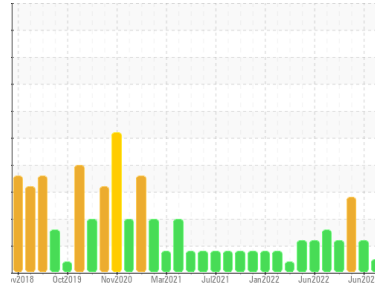




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**PRESS 6**

Component  
**Main Hydraulic System**

Fluid  
**TEXACO RANDO OIL HD 100 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.  
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### 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>WC0782210</b>	WC0690905	WC0690887
Sample Date	Client Info		<b>03 Nov 2023</b>	23 Jun 2023	24 Jan 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>NORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>1</b>	2	11
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>	2	<1
Lead	ppm	ASTM D5185m >20	<b>2</b>	1	12
Copper	ppm	ASTM D5185m >20	<b>5</b>	11	▲ 53
Tin	ppm	ASTM D5185m >20	<b>0</b>	0	<1
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 0.2	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 0	<b>0</b>	4	1
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m 0	<b>108</b>	94	47
Calcium	ppm	ASTM D5185m 49	<b>98</b>	74	26
Phosphorus	ppm	ASTM D5185m 247	<b>444</b>	399	456
Zinc	ppm	ASTM D5185m 323	<b>554</b>	477	493
Sulfur	ppm	ASTM D5185m 4717	<b>1541</b>	1397	1288

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>0</b>	<1	1
Sodium	ppm	ASTM D5185m	<b>2</b>	<1	0
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	<1

## INFRA-RED

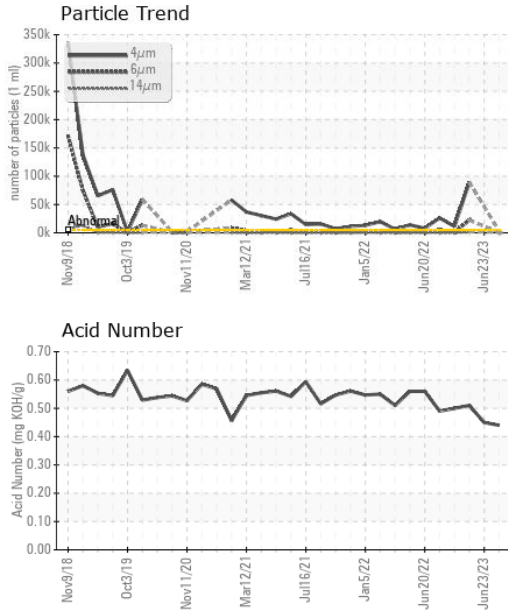
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	<b>2.4</b>	2.6	2.6
Sulfation	Abs/.1mm	*ASTM D7415	<b>10.2</b>	10.3	9.9

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>3284</b>	---	▲ 89445
Particles >6µm	ASTM D7647	>1300	<b>650</b>	---	▲ 22425
Particles >14µm	ASTM D7647	>160	<b>31</b>	---	▲ 1017
Particles >21µm	ASTM D7647	>40	<b>9</b>	---	▲ 231
Particles >38µm	ASTM D7647	>10	<b>1</b>	---	10
Particles >71µm	ASTM D7647	>3	<b>1</b>	---	2
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>19/17/12</b>	---	▲ 24/22/17



# OIL ANALYSIS REPORT

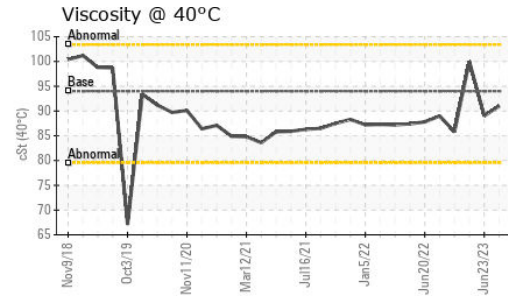


FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs.:1mm	*ASTM D7414	<b>1.9</b>	2.0	1.8
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.44</b>	0.45	0.51

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>▲ MODER</b>	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
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	NEG

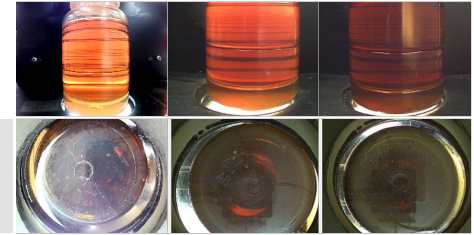
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	94	<b>91.0</b>	89.0	100

SAMPLE IMAGES	method	limit/base	current	history1	history2
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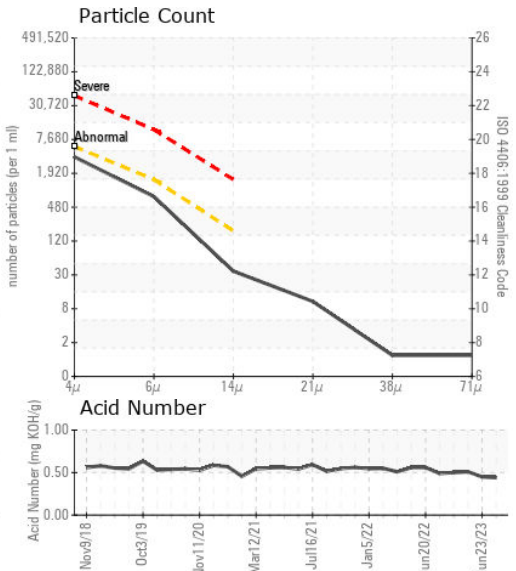
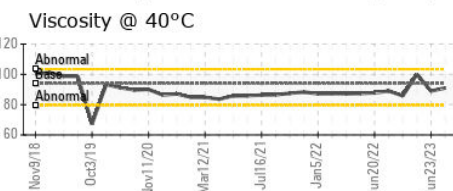
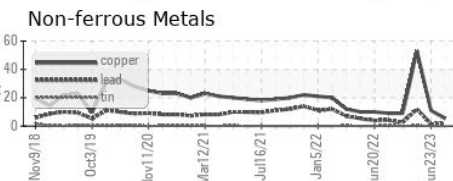
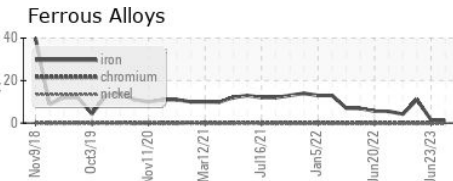
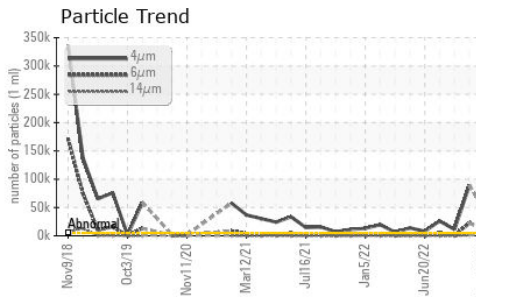


Color

Bottom



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0782210 **Received** : 07 Nov 2023  
**Lab Number** : 06001027 **Diagnosed** : 08 Nov 2023  
**Unique Number** : 10729387 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: FT-IR )

**KAISER ALUMINUM**  
 1901 REYMET RD  
 NORTH CHESTERFIELD, VA  
 US 23237  
 Contact: Yong Quan  
 Yong.Quan@kaiseraluminum.com  
 T: (804)743-6485  
 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)