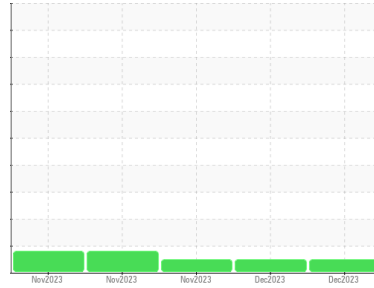




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**GUAY SON [CONHER]**  
 Machine Id  
**PISA 4 SH - Pacifico Industrial**  
 Component  
**Hydraulic System**  
 Fluid  
**ISO 68 (1000 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. (after 6 hours of Kleenoil filtration). ( Customer Sample Comment: After 8 hours of kleenoil filtration )

### 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>KL0013439</b>	KL0013440	KL0013435
Sample Date	Client Info		<b>01 Dec 2023</b>	01 Dec 2023	30 Nov 2023
Machine Age	mths	Client Info	<b>0</b>	0	0
Oil Age	mths	Client Info	<b>24</b>	24	24
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>5</b>	2	8
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	0
Copper	ppm	ASTM D5185m >75	<b>4</b>	4	4
Tin	ppm	ASTM D5185m >10	<b>0</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>0</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>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>3</b>	2	3
Calcium	ppm	ASTM D5185m	<b>20</b>	21	19
Phosphorus	ppm	ASTM D5185m	<b>329</b>	319	319
Zinc	ppm	ASTM D5185m	<b>388</b>	373	370
Sulfur	ppm	ASTM D5185m	<b>1532</b>	1475	1480

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>1</b>	1	1
Sodium	ppm	ASTM D5185m	<b>11</b>	4	12
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Water	%	ASTM D6304 >0.1	<b>0.076</b>	---	0.079
ppm Water	ppm	ASTM D6304 >1000	<b>760</b>	---	790

## FLUID CLEANLINESS

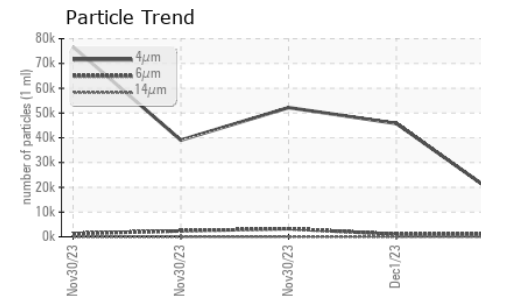
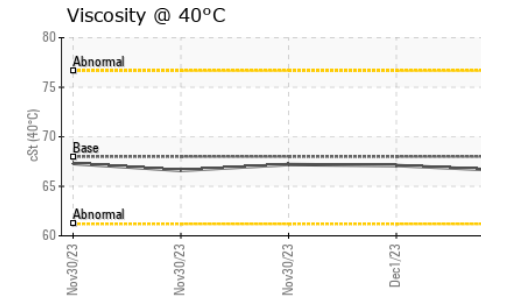
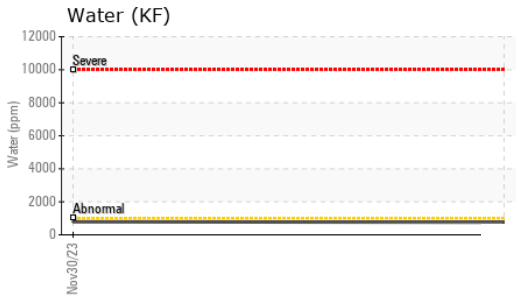
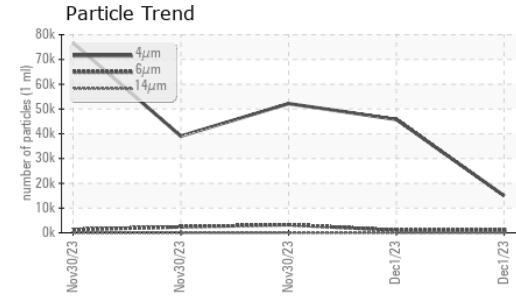
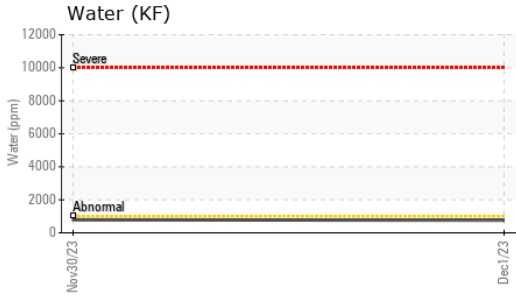
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>45765</b>	14971	76713
Particles >6µm	ASTM D7647	>1300	<b>1012</b>	1207	1299
Particles >14µm	ASTM D7647	>160	<b>10</b>	20	10
Particles >21µm	ASTM D7647	>40	<b>4</b>	4	3
Particles >38µm	ASTM D7647	>10	<b>2</b>	1	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>17/14	<b>17/10</b>	17/11	17/10

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.27</b>	0.29	0.27



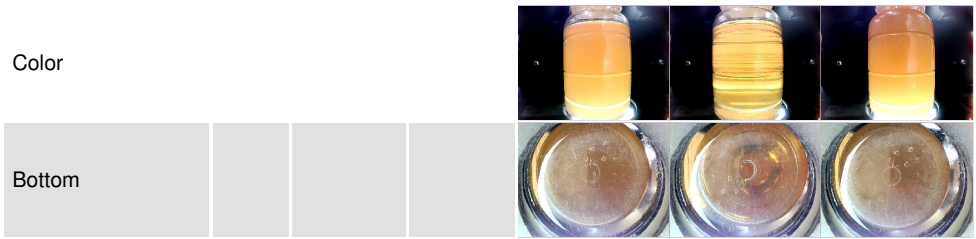
# OIL ANALYSIS REPORT



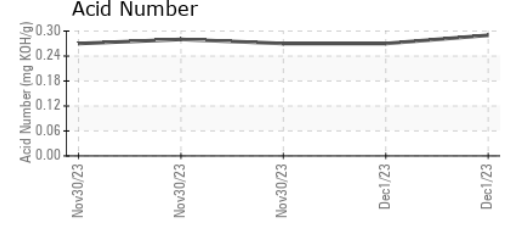
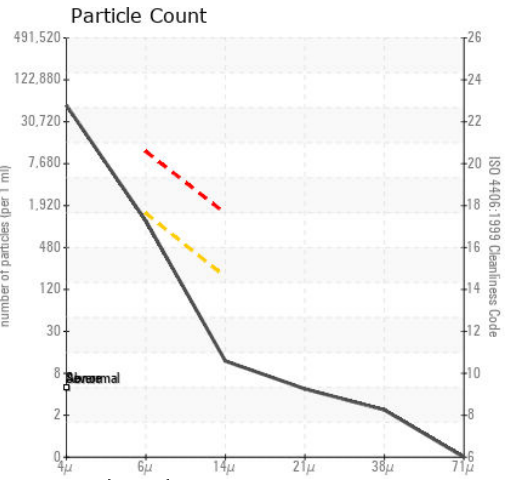
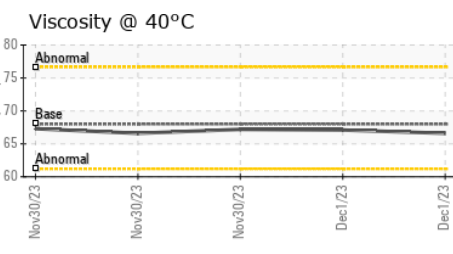
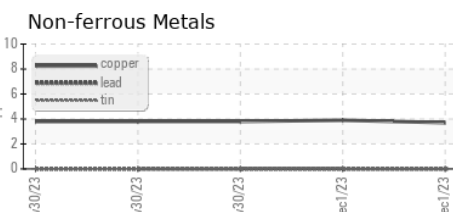
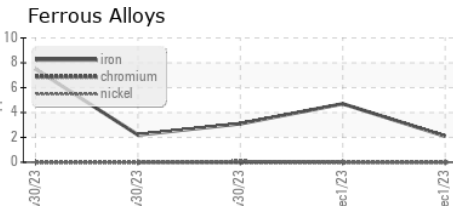
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	68.0	67.1	66.6	67.2

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0013439 **Received** : 07 Dec 2023  
**Lab Number** : 06028642 **Diagnosed** : 14 Dec 2023  
**Unique Number** : 10778433 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: KF )

Certificate L2367  
 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)

**CONOR**  
 JUAREZ 348  
 HERMOSILLO,  
 MX 83140  
 Contact: EDUARDO GARCIA  
 egarcia.comsa@gmail.com  
 T: (526)622-1581 x:81  
 F: x: