



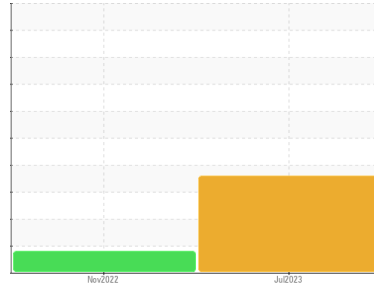
# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area  
**[CONHER]**  
 Machine Id  
**CATERPILLAR 375 Compressor Sullair 260 DPQ CA 14 LRC**  
 Component  
**Hydraulic System**  
 Fluid  
**Raloy SAE 10 W (25 LTR)**



## DIAGNOSIS

### Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KL0012398</b>	KL0011255	---
Sample Date	Client Info		<b>11 Jul 2023</b>	16 Nov 2022	---
Machine Age	hrs	Client Info	<b>0</b>	24000	---
Oil Age	hrs	Client Info	<b>0</b>	300	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>SEVERE</b>	ATTENTION	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>2</b>	2	---
Chromium	ppm	ASTM D5185m >10	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >10	<b>1</b>	1	---
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m >75	<b>1</b>	<1	---
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	1	---
Barium	ppm	ASTM D5185m	<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	<b>11</b>	14	---
Calcium	ppm	ASTM D5185m	<b>3282</b>	3115	---
Phosphorus	ppm	ASTM D5185m	<b>912</b>	835	---
Zinc	ppm	ASTM D5185m	<b>893</b>	788	---
Sulfur	ppm	ASTM D5185m	<b>4368</b>	3956	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>8</b>	7	---
Sodium	ppm	ASTM D5185m	<b>0</b>	3	---
Potassium	ppm	ASTM D5185m >20	<b>1</b>	0	---

## FLUID CLEANLINESS

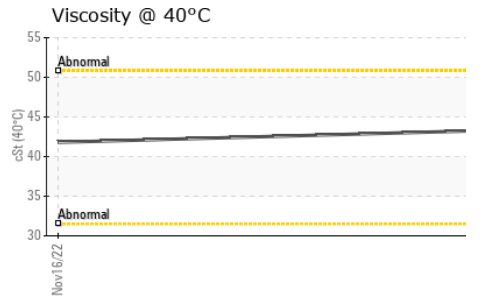
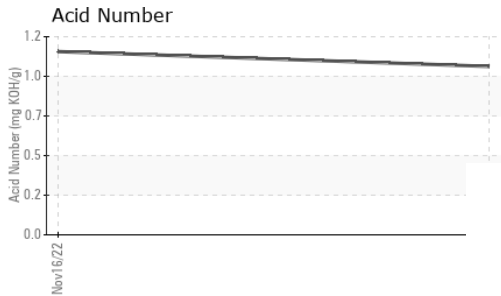
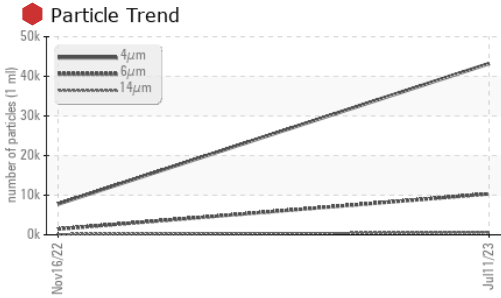
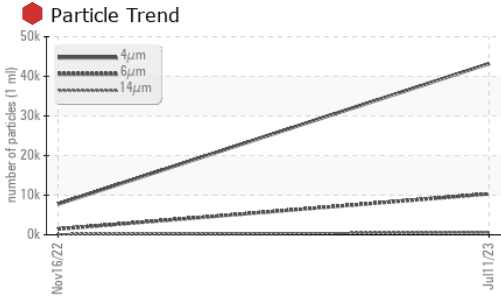
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>43229</b>	7760	---
Particles >6µm	ASTM D7647	>1300	<b>10318</b>	1450	---
Particles >14µm	ASTM D7647	>160	<b>588</b>	134	---
Particles >21µm	ASTM D7647	>40	<b>167</b>	26	---
Particles >38µm	ASTM D7647	>10	<b>5</b>	2	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>17/14	<b>21/16</b>	18/14	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.02</b>	1.11	---



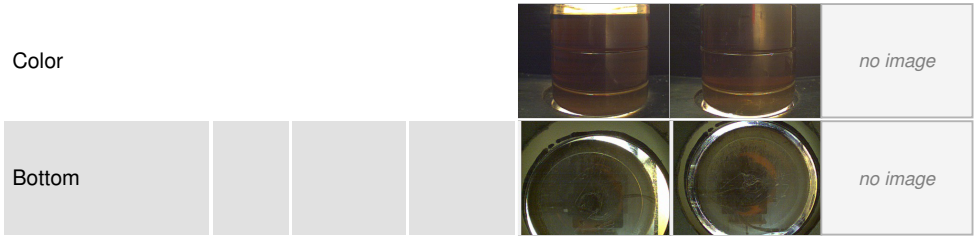
# OIL ANALYSIS REPORT



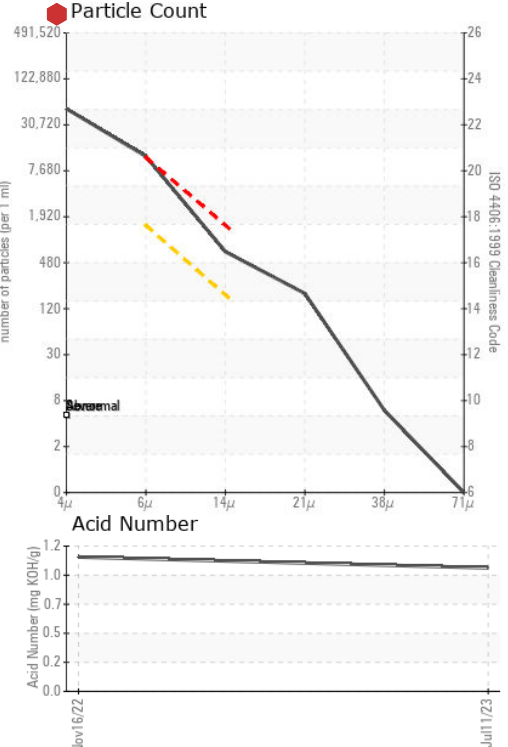
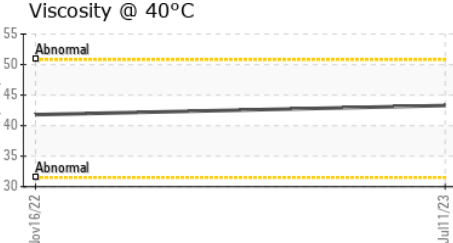
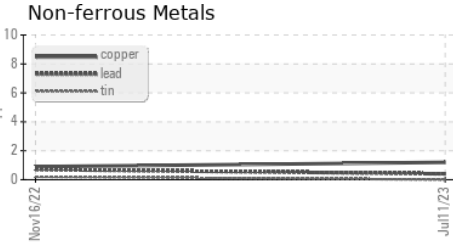
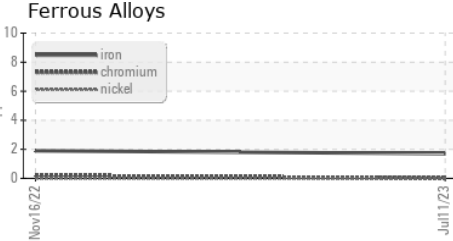
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	43.3	41.8	---

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.** : KL0012398 **Received** : 21 Jul 2023  
**Lab Number** : 05904900 **Diagnosed** : 24 Jul 2023  
**Unique Number** : 10566256 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

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)

**IBACO**

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