



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>SEVERE</b>
FLUID CONDITION	<b>ABNORMAL</b>

Area

**HER SON [CONHER]**

Machine Id

**KOMATSU C. TRAX Excavadora PC450 motor**

Component

**Diesel Engine**

Fluid

**AKRON 15W40 CI-4 (38 LTR)**

## RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. ( Customer Sample Comment: Fluid: AKRON 15W-40 CI-4 Plus )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0014571</b>	---	---
Sample Date		Client Info		<b>26 Apr 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>100</b>	---	---
Filter Age	hrs	Client Info		<b>100</b>	---	---
Oil Changed		Client Info		<b>Not Changd</b>	---	---
Filter Changed		Client Info		<b>Not Changd</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>8</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>1</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>1</b>	---	---
Copper	ppm	ASTM D5185m	>330	<b>2</b>	---	---
Tin	ppm	ASTM D5185m	>15	<b>1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

## CONTAMINATION

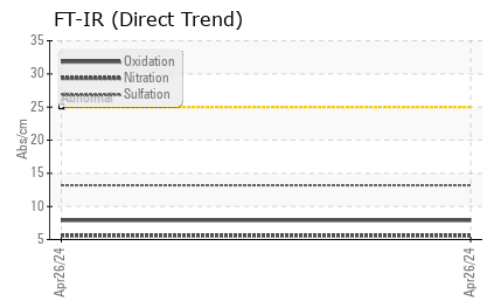
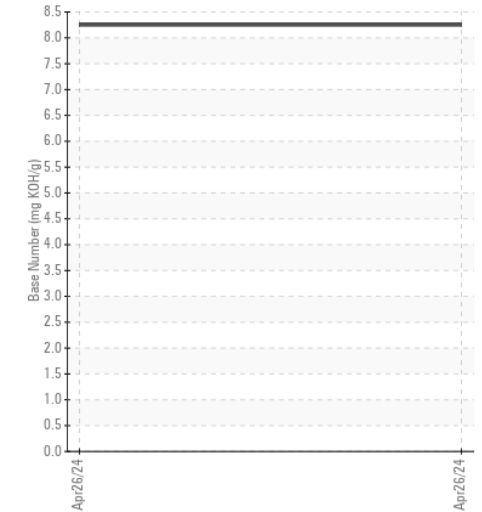
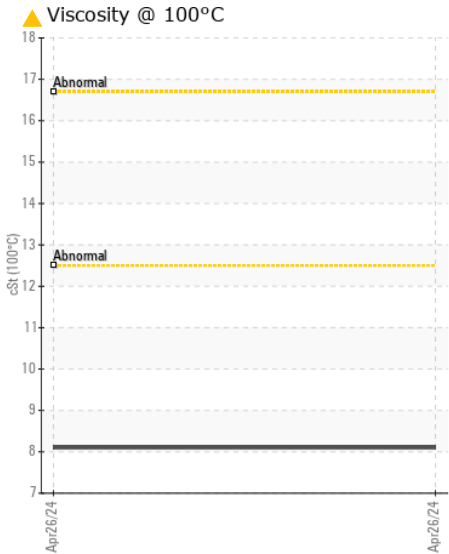
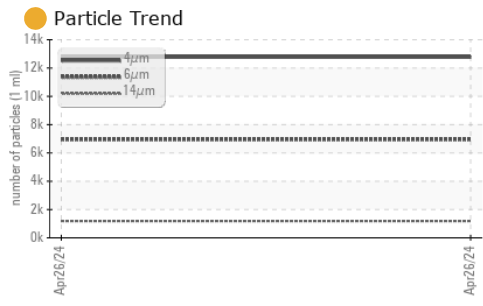
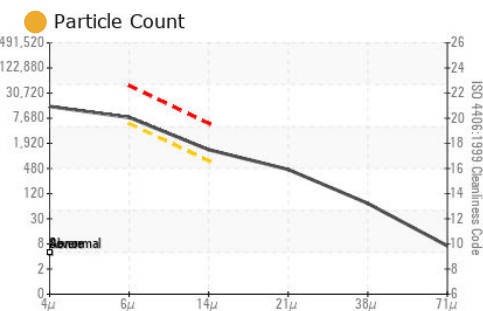
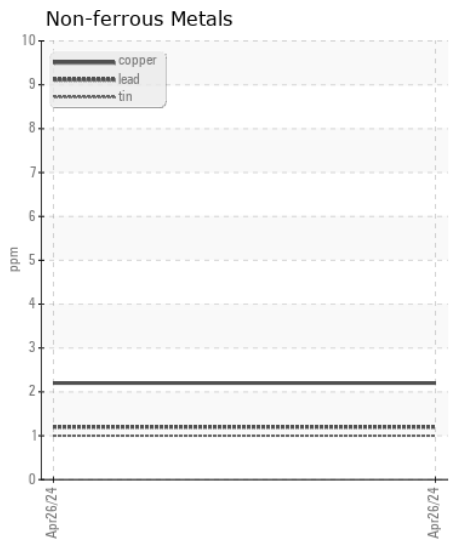
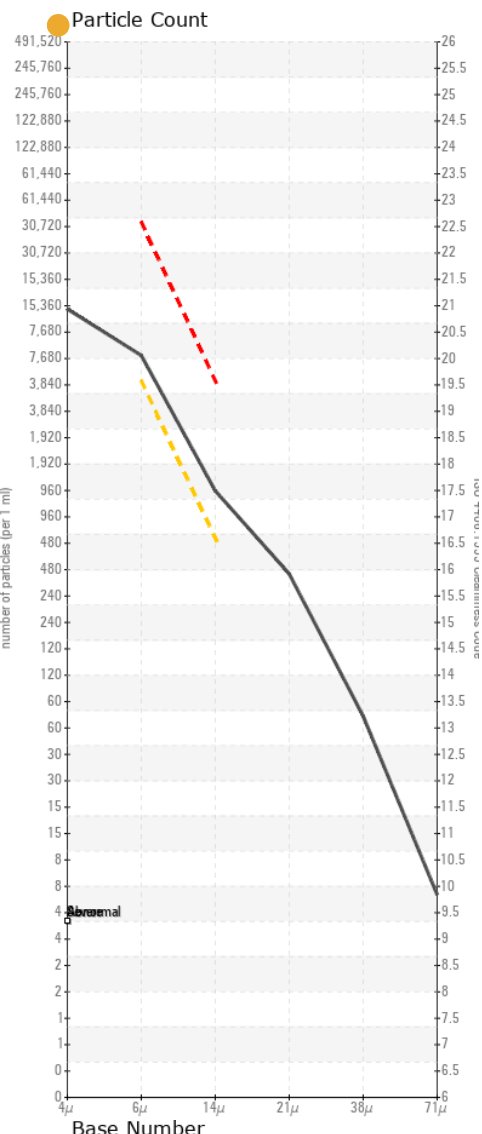
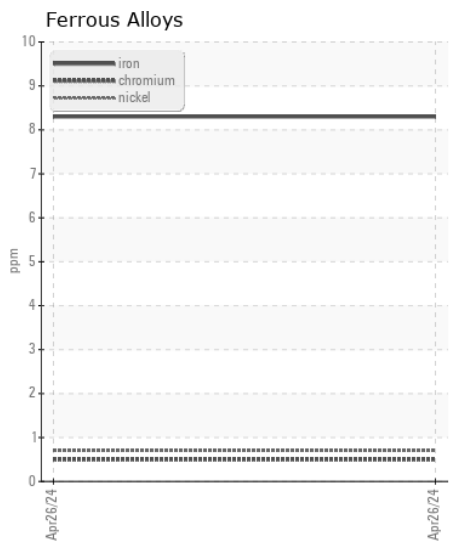
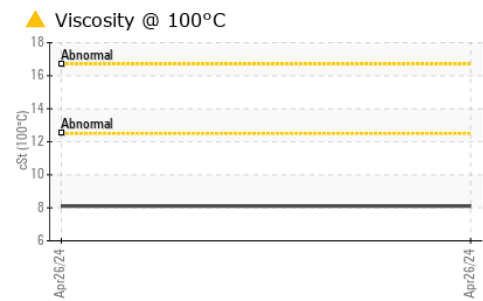
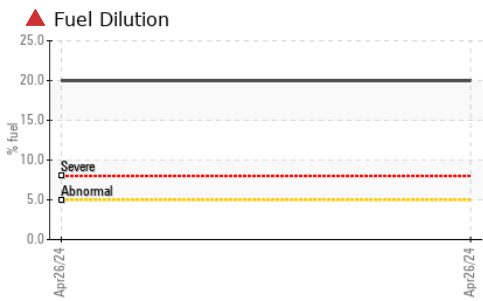
There is a moderate amount of particulates present in the oil. There is a very high amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>10</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	---	---
Fuel	%	ASTM D3524	>5	<b>▲ 20.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.6</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>13.2</b>	---	---
Particles >4µm		ASTM D7647		<b>12771</b>	---	---
Particles >6µm		ASTM D7647	>5000	<b>● 6957</b>	---	---
Particles >14µm		ASTM D7647	>640	<b>● 1184</b>	---	---
Particles >21µm		ASTM D7647	>160	<b>● 399</b>	---	---
Particles >38µm		ASTM D7647	>40	<b>● 62</b>	---	---
Particles >71µm		ASTM D7647	>10	<b>6</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>19/16	<b>● 20/17</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

## FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>0</b>	---	---
Boron	ppm	ASTM D5185m		<b>62</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>25</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>30</b>	---	---
Calcium	ppm	ASTM D5185m		<b>2286</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>634</b>	---	---
Zinc	ppm	ASTM D5185m		<b>686</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>2567</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>7.9</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.25</b>	---	---
Visc @ 100°C	cSt	ASTM D445		<b>▲ 8.1</b>	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0014571 **Received** : 09 May 2024  
**Lab Number** : 06174060 **Tested** : 15 May 2024  
**Unique Number** : 11020113 **Diagnosed** : 15 May 2024 - Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, PercentFuel, PrtCount )  
 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: