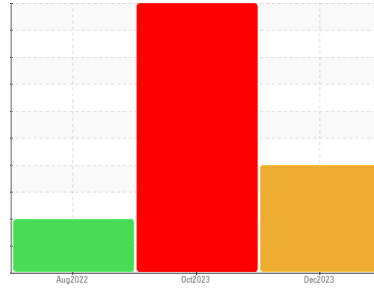




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**KUBOTA X900 MCP001**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

### Wear

Aluminum and iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Piston wear is indicated.

### Contamination

Light fuel dilution occurring. There is a moderate concentration of dirt present in the oil. Light concentration of carbon/soot present in the oil. Test for glycol is negative. High amount of ingressed dirt has caused abrasive wear to the component. No other contaminants were detected in the oil.

### Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0861363</b>	WC0726873	WC0650130
Sample Date	Client Info		<b>23 Dec 2023</b>	25 Oct 2023	03 Aug 2022
Machine Age	hrs	Client Info	<b>1995</b>	1939	1688
Oil Age	hrs	Client Info	<b>0</b>	0	250
Oil Changed	Client Info		<b>N/A</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	SEVERE	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>8</b>	88	---
Iron	ppm	ASTM D5185(m) >100	<b>▲ 143</b>	334	45
Chromium	ppm	ASTM D5185(m) >20	<b>▲ 6</b>	19	2
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	1	0
Titanium	ppm	ASTM D5185(m)	<b>&lt;1</b>	5	<1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >20	<b>▲ 53</b>	214	15
Lead	ppm	ASTM D5185(m) >40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m) >330	<b>4</b>	14	2
Tin	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	2	<1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 250	<b>42</b>	16	40
Barium	ppm	ASTM D5185(m) 10	<b>&lt;1</b>	6	0
Molybdenum	ppm	ASTM D5185(m) 100	<b>46</b>	69	85
Manganese	ppm	ASTM D5185(m)	<b>1</b>	5	<1
Magnesium	ppm	ASTM D5185(m) 450	<b>567</b>	780	42
Calcium	ppm	ASTM D5185(m) 3000	<b>1742</b>	1610	2272
Phosphorus	ppm	ASTM D5185(m) 1150	<b>775</b>	953	1075
Zinc	ppm	ASTM D5185(m) 1350	<b>924</b>	1217	1182
Sulfur	ppm	ASTM D5185(m) 4250	<b>2194</b>	2540	3070
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>▲ 73</b>	310	43
Sodium	ppm	ASTM D5185(m) >158	<b>15</b>	58	5
Potassium	ppm	ASTM D5185(m) >20	<b>13</b>	56	3
Fuel	%	ASTM D7593* >5	<b>1.3</b>	<1.0	1.1
Glycol	%	ASTM D7922*	<b>0.0</b>	0.0	NEG

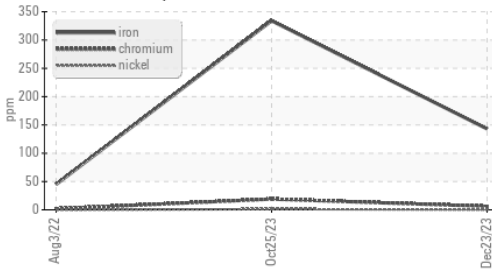
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>▲ 3.2</b>	1.5	0.4
Nitration	Abs/cm	ASTM D7624* >20	<b>10.1</b>	11.4	11.4
Sulfation	Abs./1mm	ASTM D7415* >30	<b>28.9</b>	26.8	24.2



# OIL ANALYSIS REPORT

### ▲ Ferrous Alloys



### FLUID DEGRADATION

method	limit/base	current	history1	history2
Abs/.1mm	ASTM D7414*	>25	21.7	20.4

### VISUAL

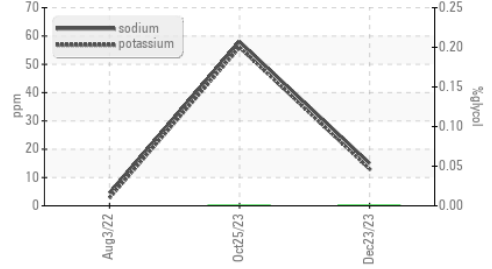
method	limit/base	current	history1	history2
Visual*	>0.2	<b>NEG</b>	NEG	NEG
Visual*		<b>NEG</b>	NEG	NEG

### FLUID PROPERTIES

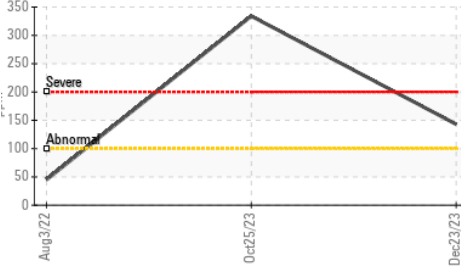
method	limit/base	current	history1	history2
cSt	ASTM D7279(m)	14.4	14.3	▲ 11.2

### GRAPHS

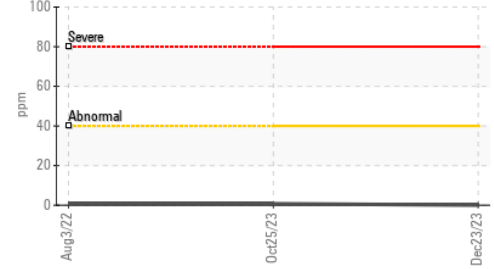
### ● Glycol Contamination



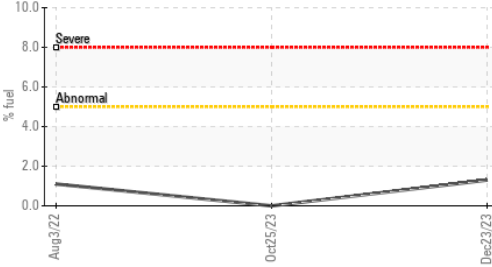
### ▲ Iron (ppm)



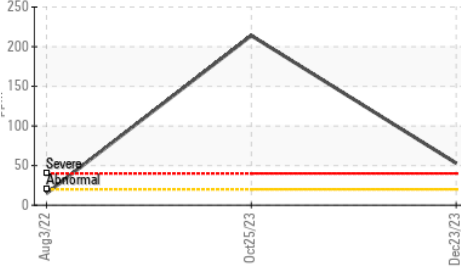
### Lead (ppm)



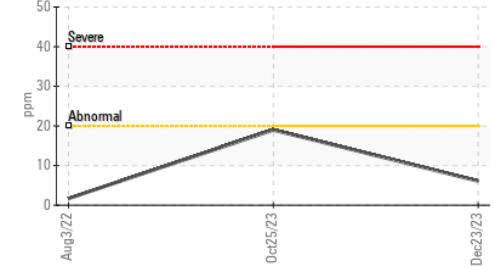
### ● Fuel Dilution



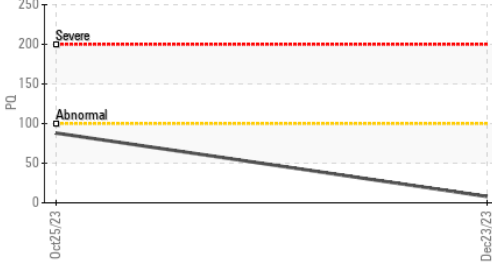
### ▲ Aluminum (ppm)



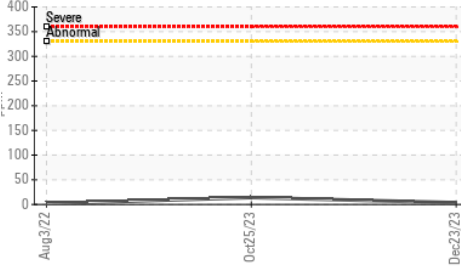
### Chromium (ppm)



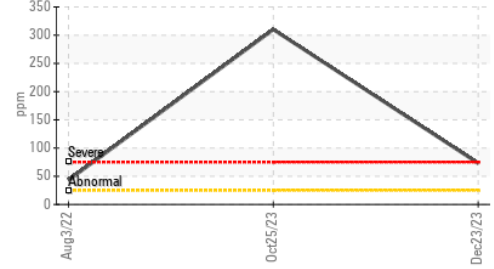
### ● PQ



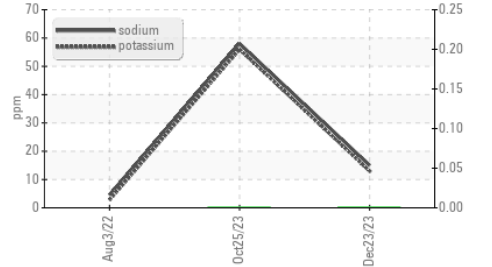
### Copper (ppm)



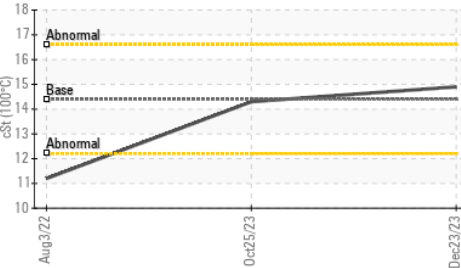
### ▲ Silicon (ppm)



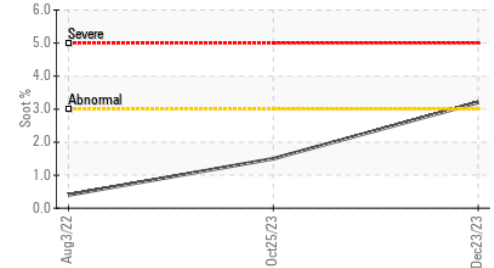
### ● Glycol Contamination



### Viscosity @ 100°C



### ▲ Soot %



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0861363  
**Lab Number** : 02606495  
**Unique Number** : 5707581  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, Glycol, PercentFuel, PQ )

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 T: (705)567-5208  
 F: (705)567-5221

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.