



# OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id  
**KOMATSU FG30HT-16 FL1432**

Component  
**Transmission**  
Fluid  
**HPL 80W90 (--- GAL)**



## DIAGNOSIS

### Recommendation

We recommend an early resample to monitor this condition.

### Wear

The copper level is severe. Clutch disc wear or oil cooler leaching indicated.

### Contamination

There is no indication of any contamination in the fluid.

### Fluid Condition

The fluid viscosity is lower than normal. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>HPL0004084</b>	---	---
Sample Date	Client Info			<b>31 Oct 2023</b>	---	---
Machine Age	hrs	Client Info		<b>4436</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>76</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m		<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>50	<b>6</b>	---	---
Lead	ppm	ASTM D5185m	>50	<b>2</b>	---	---
Copper	ppm	ASTM D5185m	>200	<b>424</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>9</b>	---	---
Barium	ppm	ASTM D5185m		<b>22</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>3</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>13</b>	---	---
Calcium	ppm	ASTM D5185m		<b>3842</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>828</b>	---	---
Zinc	ppm	ASTM D5185m		<b>1027</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>6377</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>25</b>	---	---
Sodium	ppm	ASTM D5185m		<b>0</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	---	---

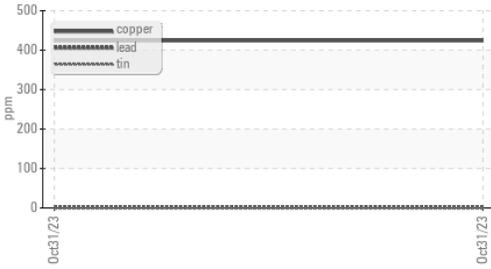
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.16</b>	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual	NONE	<b>NONE</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	>0.1	<b>NEG</b>	---	---
Free Water	scalar	*Visual		<b>NEG</b>	---	---

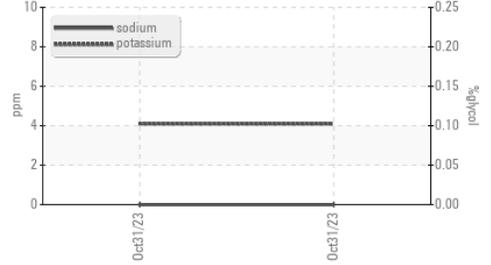


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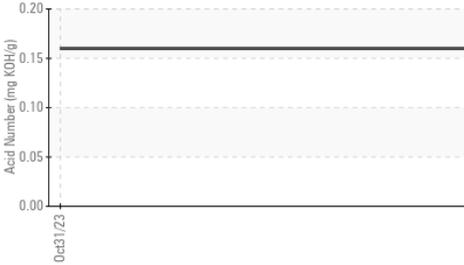
### Non-ferrous Metals



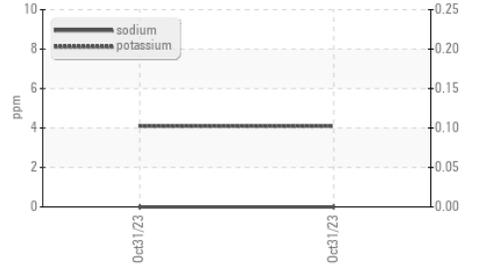
### Glycol Contamination



### Acid Number



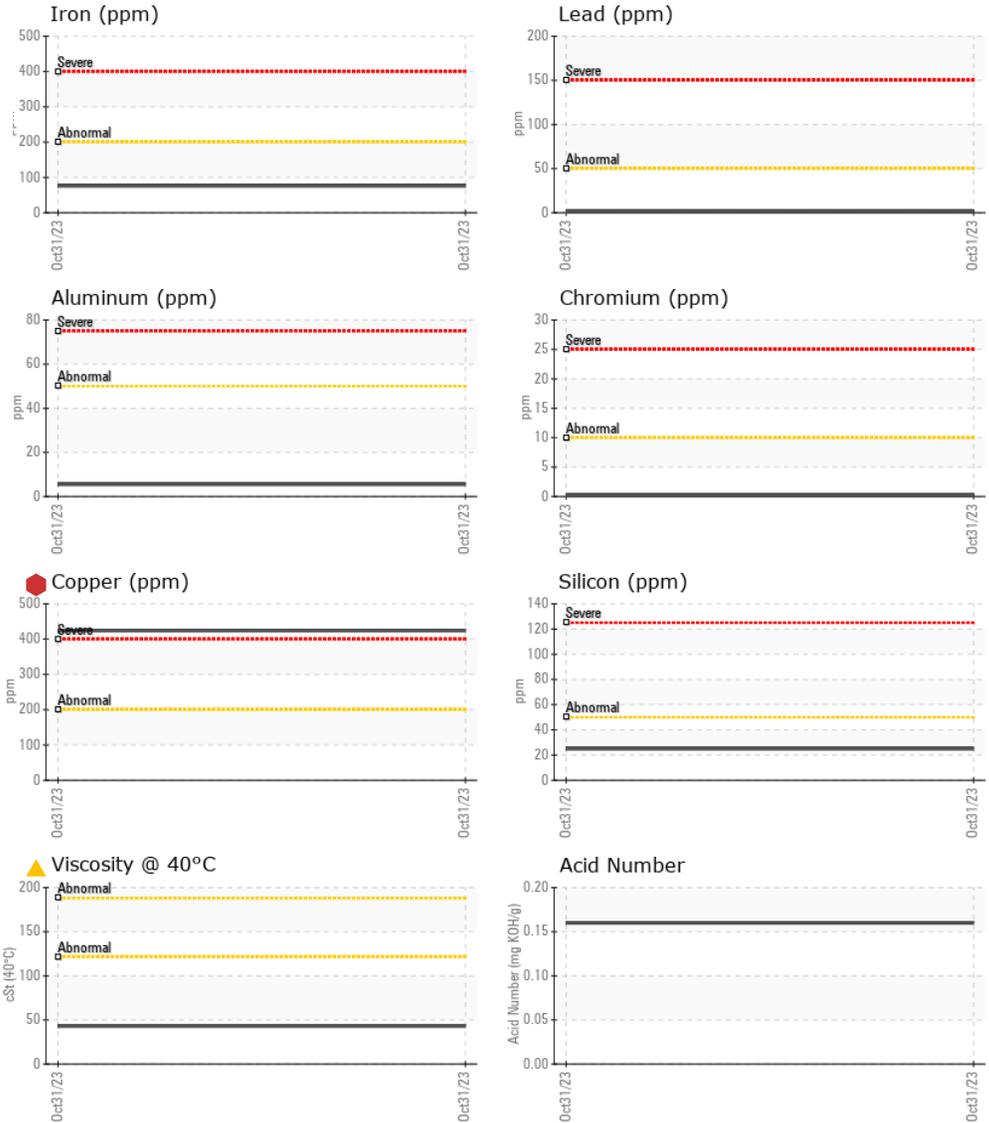
### Glycol Contamination



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		▲ 43.0	---	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : HPL0004084 **Received** : 03 Nov 2023  
**Lab Number** : 05998184 **Diagnosed** : 07 Nov 2023  
**Unique Number** : 10726544 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: Glycol )

**STEVENSON CRANE**  
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 BOLINGBROOK, IL  
 US 60440  
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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)