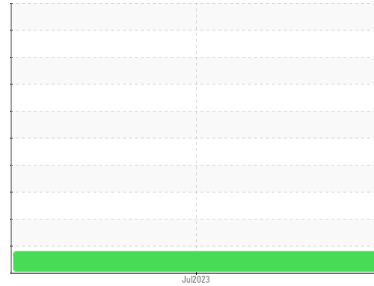


# PROBLEM SUMMARY

Sample Rating Trend



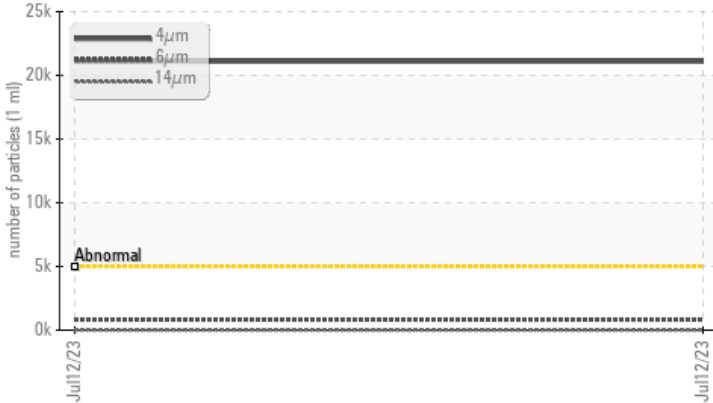
ISO



Machine Id  
**KOMATSU 21738**  
Component  
**Hydraulic System**  
Fluid  
**NOT GIVEN (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

Nous avons pris note que le filtre a été remplacé au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. À NOTER: S.V.P. inclure, avec le prochain échantillon, des détails de la capacité du réservoir et le type et le degré de filtration. Veuillez préciser la marque, le type et la viscosité de l'huile lors de votre prochain échantillon.

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ABNORMAL</b>	---	---
Particles >4µm	ASTM D7647	>5000	▲ <b>21091</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ <b>22/17/11</b>	---	---

**Customer Id:** VIL161QUE  
**Sample No.:** PC0070025  
**Lab Number:** 02570112  
**Test Package:** IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Kevin Marson +1 (289)291-4644 x4644  
[Kevin.Marson@wearcheck.com](mailto:Kevin.Marson@wearcheck.com)

To change component or sample information:  
Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## HISTORICAL DIAGNOSIS

Machine Id  
**KOMATSU 21738**  
Component  
**Hydraulic System**  
Fluid  
**NOT GIVEN (--- GAL)**



**DIAGNOSIS**

**Recommendation**

Nous avons pris note que le filtre a été remplacé au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. À NOTER: S.V.P. inclure, avec le prochain échantillon, des détails de la capacité du réservoir et le type et le degré de filtration. Veuillez préciser la marque, le type et la viscosité de l'huile lors de votre prochain échantillon.

**Wear**

Les taux d'usure de tous les composants sont normaux.

**Contamination**

Il y a une quantité modérée de particules (de 4 à 14 microns) dans l'huile.

**Fluid Condition**

Le AN est acceptable pour ce fluide. l'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PC0070025</b>	---	---
Sample Date	Client Info			<b>12 Jul 2023</b>	---	---
Machine Age	hrs	Client Info		<b>1680</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>Not Chngd</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<b>10</b>	---	---
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>10	<b>1</b>	---	---
Lead	ppm	ASTM D5185(m)	>10	<b>3</b>	---	---
Copper	ppm	ASTM D5185(m)	>75	<b>7</b>	---	---
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

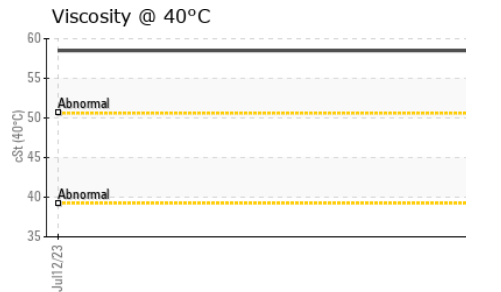
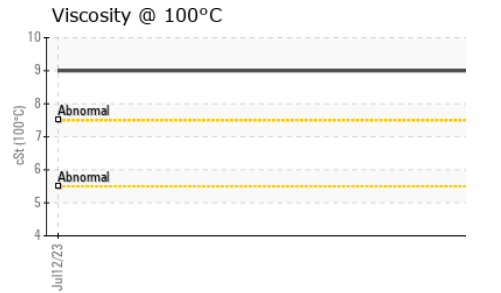
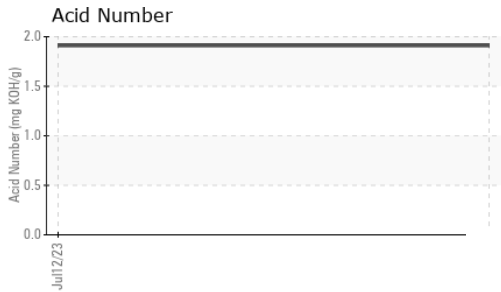
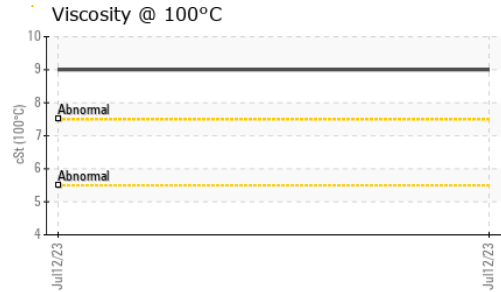
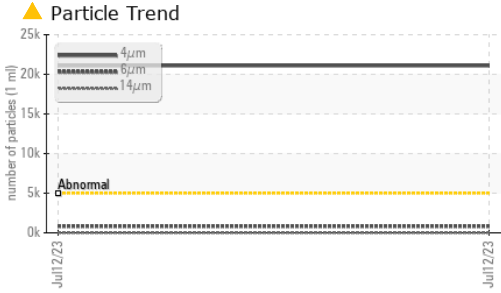
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>32</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>15</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>178</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>2139</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>1010</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>1074</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>3079</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	<b>5</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>6</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>▲ 21091</b>	---	---
Particles >6µm		ASTM D7647	>1300	<b>832</b>	---	---
Particles >14µm		ASTM D7647	>160	<b>12</b>	---	---
Particles >21µm		ASTM D7647	>40	<b>3</b>	---	---
Particles >38µm		ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 22/17/11</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>1.91</b>	---	---

# OIL ANALYSIS REPORT

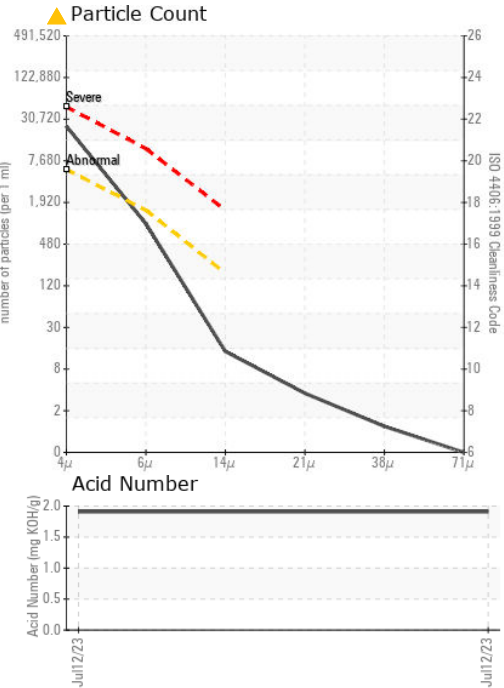
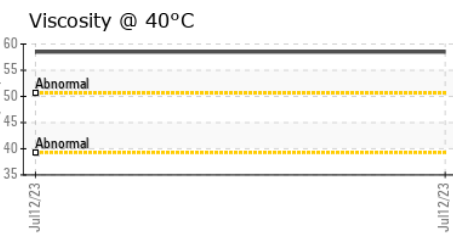
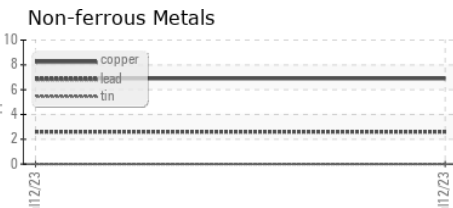
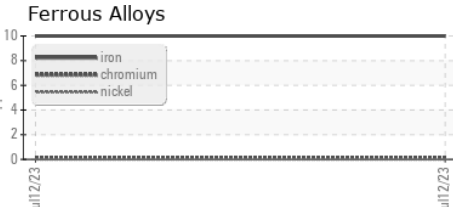


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	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 D7279(m)	58.5	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	9	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	131	---	---

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0070025 **Received** : 14 Jul 2023  
**Lab Number** : 02570112 **Diagnosed** : 18 Jul 2023  
**Unique Number** : 5607158 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: KV100, TAN Man, VI )

**VILLE DE QUEBEC**  
 1615, boul. Jean-Talon, Ouest, arrondissement de Charlesbourg  
 Quebec, QC  
 CA G2K 2J5  
 Contact: Daniel Gosselin  
 daniel.gosselin@ville.quebec.qc.ca

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.