



WEAR CONTAMINATION FLUID CONDITION

SEVERE SEVERE NORMAL



KOMATSU PC300 PC300-5 (S/N A90914)

Left Final Drive

SAE 50W (--- GAL)

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We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TLY0002479	TLY0001746	TLY0001167
Sample Date	Sample Date			12 Jun 2024	12 Jun 2023	19 May 2022
Machine Age	hrs	Client Info		12810	12442	11791
Oil Age	hrs	Client Info		11791	651	2000
Filter Age	hrs	Client Info		11791	651	2000
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				SEVERE	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>500	1539	<u> </u>	▲ 889
Chromium	ppm	ASTM D5185m	>10	<u> </u>	<u> </u>	1 0
Nickel	ppm	ASTM D5185m	>10	2	<1	0

WEAR

Gear wear is indicated.

Titanium	ppm	ASTM D5185m		6	6	5
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	48	5 2	39
Lead	ppm	ASTM D5185m	>25	0	<1	<1
Copper	ppm	ASTM D5185m	>50	14	12	7
Tin	ppm	ASTM D5185m	>10	<1	1	0
Vanadium	ppm	ASTM D5185m		1	1	<1
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE

NONE

NONE

scalar *Visual

Yellow Metal

CONTAMINATION

There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75		398		389	301
Potassium	ppm	ASTM D5185m	>20		14		13	10
Water	%	ASTM D6304	>0.2	_	0.325	_	0.372	
ppm Water	ppm	ASTM D6304	>2000		3250		3720	
Silt	scalar	*Visual	NONE		NONE		NONE	NONE
Debris	scalar	*Visual	NONE		NONE		NONE	NONE
Sand/Dirt	scalar	*Visual	NONE		NONE		NONE	NONE
Appearance	scalar	*Visual	NORML		NORML		NORML	NORML
Odor	scalar	*Visual	NORML		NORML		NORML	NORML
Emulsified Water	scalar	*Visual	>0.2		0.2%		0.2%	NEG
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FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

	Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	NEG
	Sodium	ppm	ASTM D5185m		9	6	5
	Boron	ppm	ASTM D5185m		13	5	7
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		2	3	3
	Manganese	ppm	ASTM D5185m		10	8	6
	Magnesium	ppm	ASTM D5185m		18	17	17
	Calcium	ppm	ASTM D5185m		4086	4167	4314
	Phosphorus	ppm	ASTM D5185m		1537	1425	1466
	Zinc	ppm	ASTM D5185m		1695	1753	1821
	Sulfur	ppm	ASTM D5185m		14779	14763	11661
	Visc @ 40°C	cSt	ASTM D445	215	83.8	83.8	83.5
					Submitted	Rv. BRAND	Y BADING

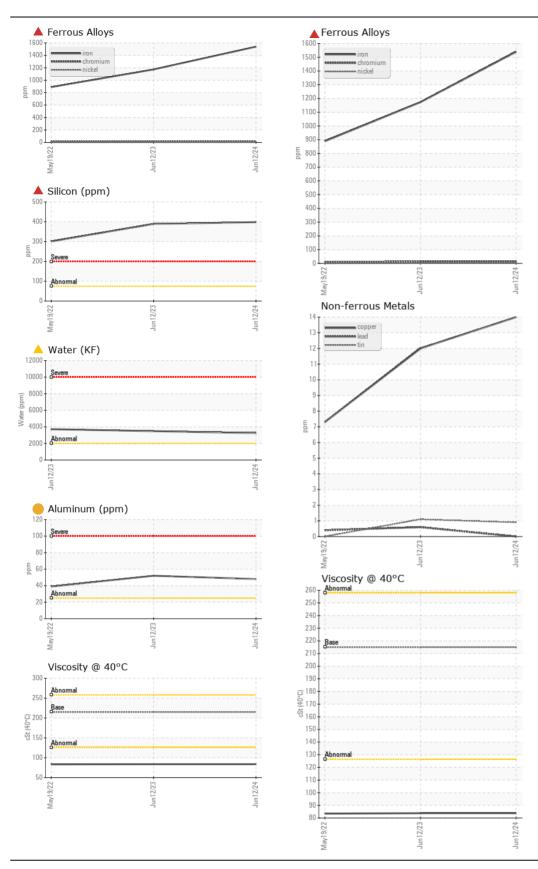
Report Id: GAIREIMAR [WUSCAR] 06214109 (Generated: 06/21/2024 19:22:08) Rev: 1

Submitted By: BRANDY BADING

NONE

NONE

NONE





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06214109 Unique Number: 11086973

: TLY0002479

Received **Tested**

Diagnosed Test Package : CONST (Additional Tests: KF)

: 20 Jun 2024 : 20 Jun 2024 - Sean Felton

: 18 Jun 2024

112 WESTMINISTER RD REISTERSTOWN, MD US 21136 Contact: LANCE TANCRAITOR

GAINES & COMPANY

Itancraitor@gainesandco.com T: (410)833-9833

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)

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