WEAR
CONTAMINATION
FLUID CONDITION

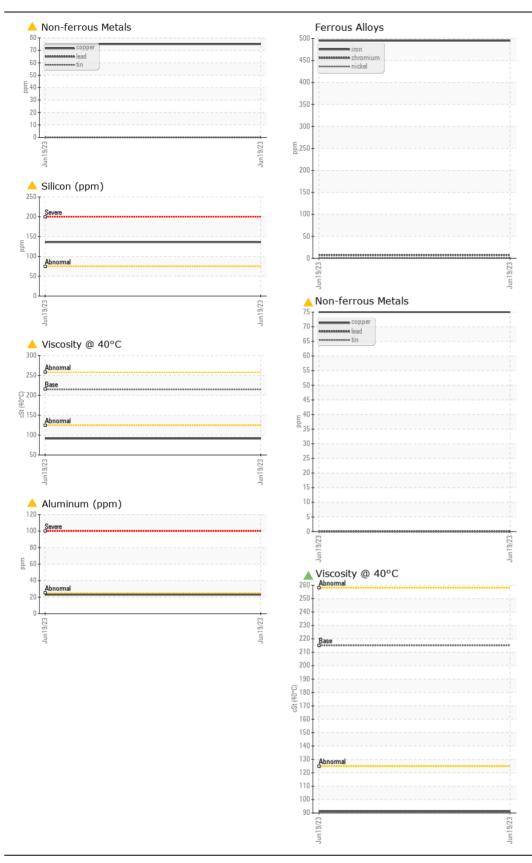
ABNORMAL
ABNORMAL
ATTENTION

Machine Ic

## KOMATSU PC228 PC228-1 (S/N 1028)

Right Final Drive

RECOMMENDATION  We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TLY0001785		
	Sample Date		Client Info		19 Jun 2023		
	Machine Age	hrs	Client Info		5605		
	Oil Age	hrs	Client Info		1605		
	Filter Age	hrs	Client Info		1605		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
/FAD							
WEAR	Iron	ppm	ASTM D5185m		495		
The copper level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	8		
	Nickel	ppm	ASTM D5185m		1		
	Titanium	ppm	ASTM D5185m		3		
	Silver	ppm	ASTM D5185m	0.5	0		
	Aluminum	ppm	ASTM D5185m		<b>23</b>		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		<u>^</u> 75		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium White Metal	ppm	*Visual	NONE	<1 NONE		
		scalar		NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	<b>136</b>		
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	8		
	Water		WC Method	>0.2	NEG		
	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	>0.2	NEG		
LUID CONDITION	Sodium	nnm	ASTM D5185m		0		
	Boron	ppm	ASTM D5185m		<1		
The oil viscosity is lower than normal. Confirm oil type. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		1		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		15		
	Calcium	ppm	ASTM D5185m		3893		
	Phosphorus	ppm	ASTM D5185m		836		
	Zinc	ppm	ASTM D5185m		1014		
	Sulfur	ppm	ASTM D5185m		5341		
	Junui	PPIII	TO HAI DO TOUTH		JUT 1		





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: TLY0001785 : 05881678 : 10526781 Test Package : CONST

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 22 Jun 2023 Diagnosed : 27 Jun 2023 Diagnostician : Don Baldridge

**GAINES & COMPANY** 112 WESTMINISTER RD REISTERSTOWN, MD US 21136

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

F: