

WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION NORMAL

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## PCS - PORTABLE CRUSHING SERVICES Machine Id KOMATSU PC290LC TH01 - PCS Component Hydraulic System Fluid STP HYDRO OIL ISO AW 46 (66 GAL)

## RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

## **WEAR**

All component wear rates are normal.

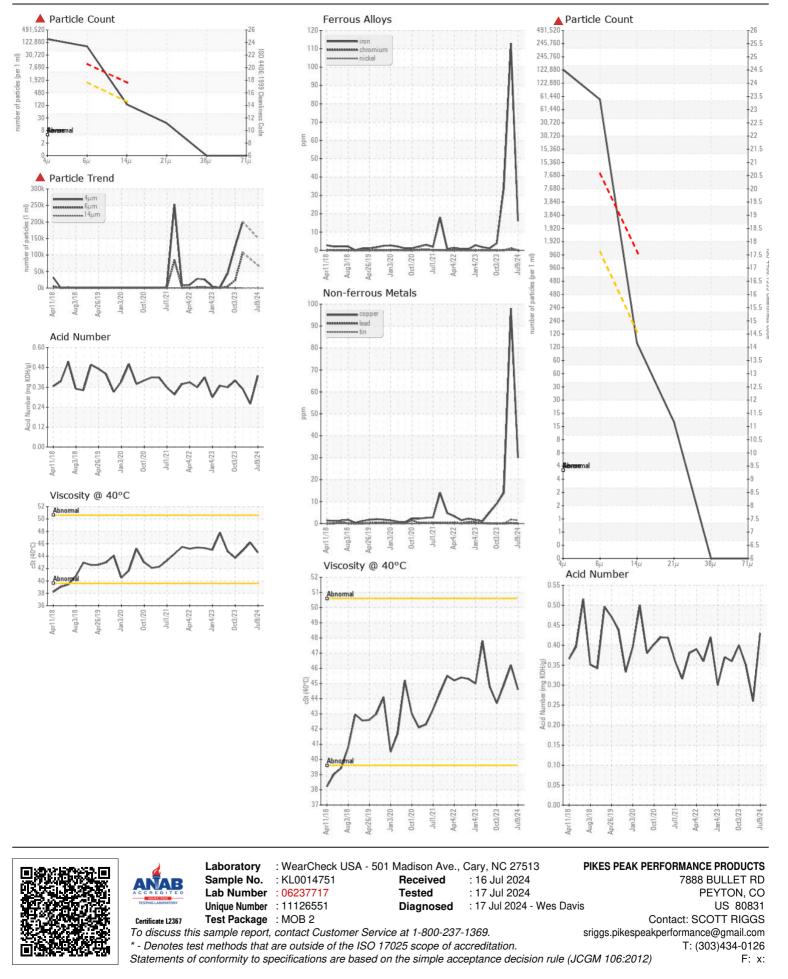
## CONTAMINATION

There is a high amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.

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The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Numb		Client Info		KL0014751	KL0013776	KL0014099
Sample Date		Client Info		09 Jul 2024	10 Apr 2024	09 Jan 2024
Machine Age	hrs	Client Info		13105	12916	12462
Oil Age	hrs	Client Info		5754	5565	5112
Filter Age	hrs	Client Info		5754	5565	5112
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Change		Client Info		Not Changd	Not Changd	Not Changd
Sample Statu	IS			SEVERE	SEVERE	ABNORMAL
Iron	nnm	ASTM D5185m	>20	16	<b>▲</b> 113	▲ 34
Chromium	ppm ppm	ASTM D5185m	>10	0	1	▲ 34 0
Nickel		ASTM D5185m	>10	0	<1	0
Titanium	ppm ppm	ASTM D5185m	>10	0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	13	6
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>75	30	▲ 98	14
Tin	ppm	ASTM D5185m	>10	1	2	0
Vanadium	ppm	ASTM D5185m	- 10	0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	9	<b>6</b> 1	<u> </u>
Potassium	ppm	ASTM D5185m	>20	0	5	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µ	m	ASTM D7647		151436		200528
Particles >6µ		ASTM D7647	>1300	<b>69064</b>		<u> </u>
Particles >14µ		ASTM D7647	>160	118		<u> </u>
Particles >21µ		ASTM D7647	>40	15		4
Particles >38µ		ASTM D7647	>10	0		1
Particles >71µ		ASTM D7647	>3	0		0
Oil Cleanlines		ISO 4406 (c)		<b>2</b> 3/14		<u> </u>
Silt	scalar	*Visual	NONE	NONE	A HEAVY	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 Wat	<b>er</b> scalar	*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		1	5	2
Boron	ppm	ASTM D5185m		0	5	3
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		1	14	11
Manganese	ppm	ASTM D5185m		0	1	<1
Magnesium	ppm	ASTM D5185m		<1	1	0
Calcium	ppm	ASTM D5185m		65	305	124
Phosphorus	ppm	ASTM D5185m		335	274	298
Zinc	ppm	ASTM D5185m		347	257	338
Sulfur	ppm	ASTM D5185m		1710	1480	1335
Acid Number (A		ASTM D8045		0.43	0.26	0.35
Visc @ 40°C		ASTM D445		44.6	46.2	44.9
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