

WEAR NORMAL CONTAMINATION ATTENTION FLUID CONDITION NORMAL

Machine Id **KOMATSU TH-27** Component **Hydraulic System** Fluid **AW HYDRAULIC OIL ISO 46 (--- GAL)**

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

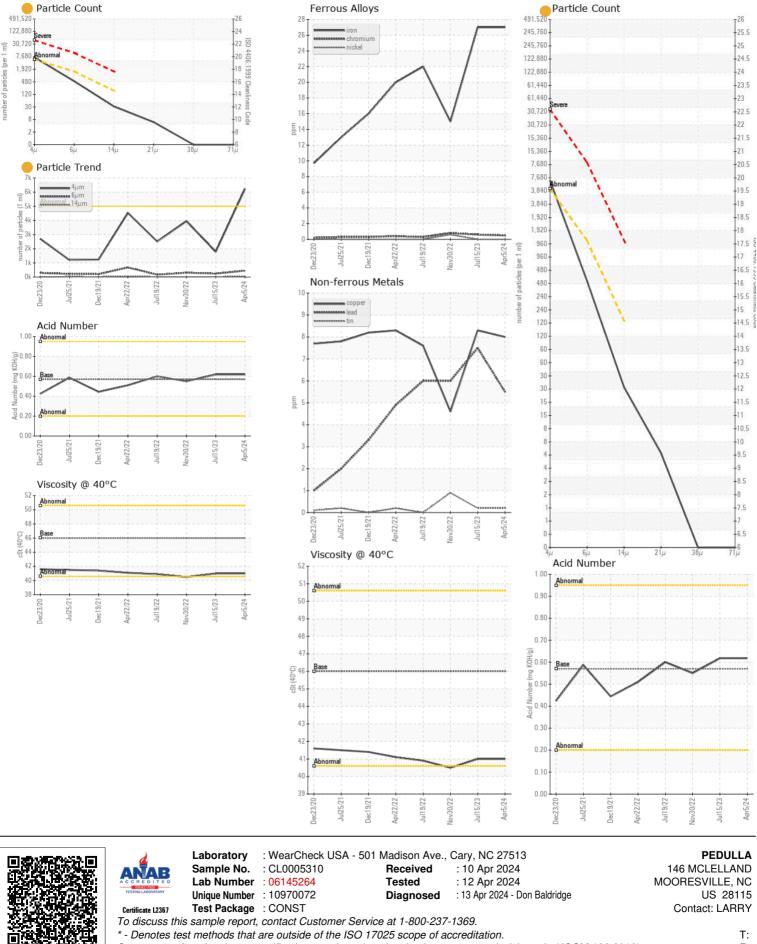
CONTAMINATION

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CL0005310	CL0004474	CL0003767
Sample Date		Client Info		05 Apr 2024	15 Jul 2023	30 Nov 2022
Machine Age	hrs	Client Info		6530	5985	5440
Oil Age	hrs	Client Info		6530	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>20	27	27	15
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m	210	<1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	2	2	3
Lead	ppm	ASTM D5185m	>10	6	8	6
Copper	ppm	ASTM D5185m	>75	8	8	5
Tin	ppm	ASTM D5185m	>10	ہ <1	<1	<1
Vanadium	ppm	ASTM D5185m	- 10	0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	·····	vioual			HOHL	HOHL
Silicon	ppm	ASTM D5185m	>20	4	6	3
Potassium	ppm	ASTM D5185m	>20	3	3	12
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	6230	1785	3944
Particles >6µm		ASTM D7647	>1300	452	241	304
Particles >14µm		ASTM D7647	>160	28	18	14
Particles >21µm		ASTM D7647	>40	5	7	4
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	0/16/12	18/15/11	19/15/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>0.1	NEG	NEG	NEG
Sodium	nom	ASTM D5185m		1	4	2
Boron	ppm	ASTM D5185m	5	0	0	1
Barium	ppm ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m		2	1	<1
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	25	14	8	17
Calcium	ppm	ASTM D5185m	200	371	387	168
Phosphorus	ppm	ASTM D5185m	300	379	376	235
Zinc	ppm	ASTM D5185m	370	416	436	206
Sulfur	ppm	ASTM D5185m	2500	1240	1365	590
Acid Number (AN)	mg KOH/g	ASTM D3103III ASTM D8045	0.57	0.618	0.618	0.55
Visc @ 40°C	cSt	ASTM D0045 ASTM D445	46	41.0	41.0	40.5
	001	A011010440	40	41.0	41.0	40.5



* - 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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