



OIL ANALYSIS REPORT

WEAR	MARGINAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Machine Id
KOMATSU PC-290 TH-10 (S/N A25451)
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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CL0005433	CL0004692	CL0004244
Sample Date		Client Info		12 May 2024	13 Sep 2023	28 Apr 2023
Machine Age	hrs	Client Info		12705	12125	11742
Oil Age	hrs	Client Info		12705	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	MARGINAL	ABNORMAL

WEAR

The iron level is abnormal. The aluminum level is abnormal.

Iron	ppm	ASTM D5185m	>20	▲ 54	▲ 59	▲ 67
Chromium	ppm	ASTM D5185m	>10	<1	1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	8	8	7
Lead	ppm	ASTM D5185m	>10	<1	1	2
Copper	ppm	ASTM D5185m	>75	5	6	6
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

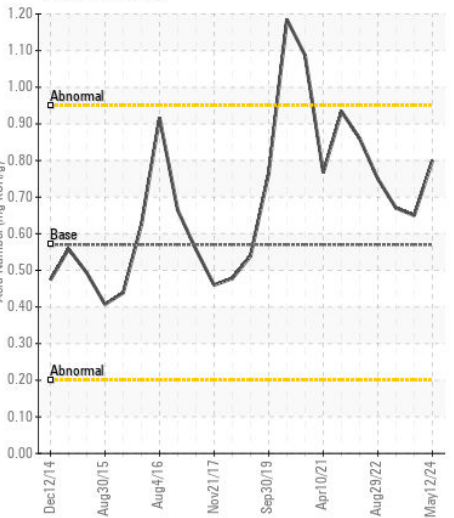
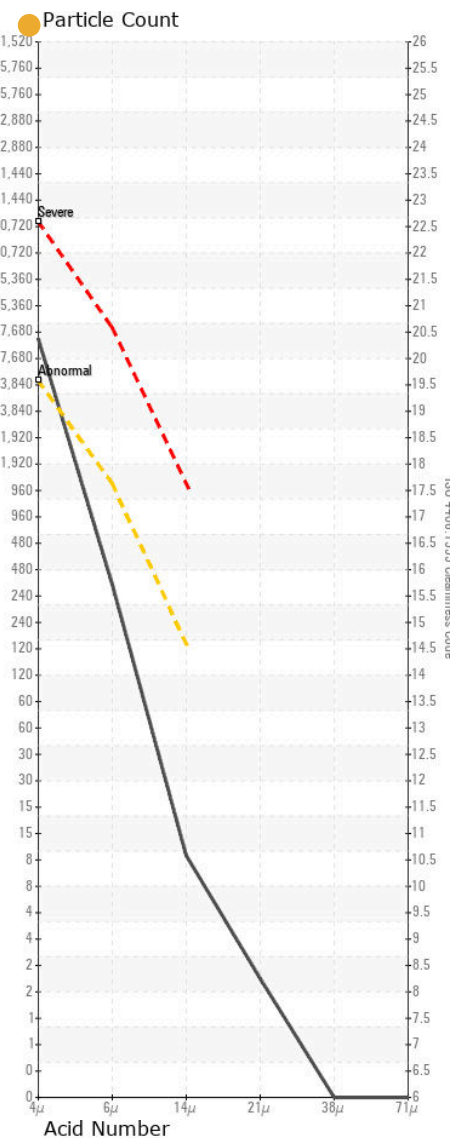
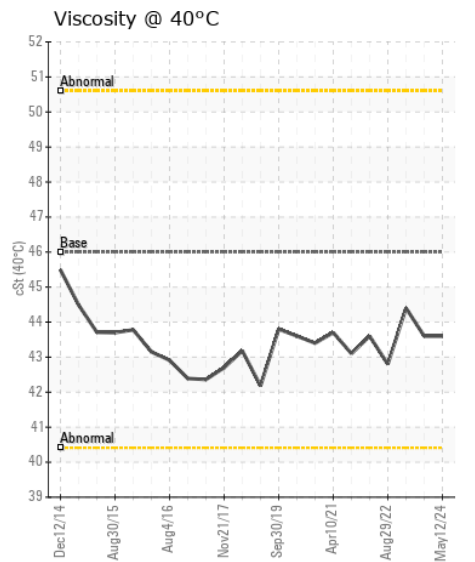
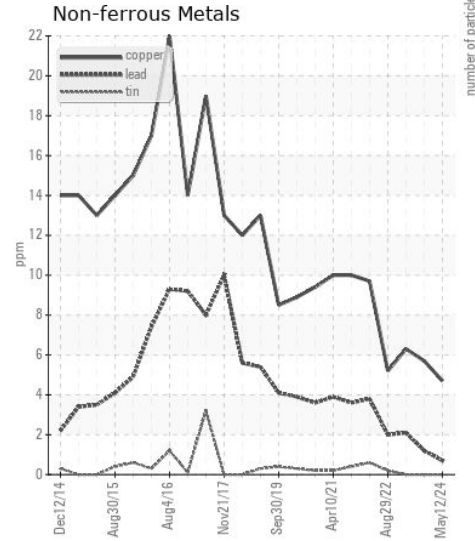
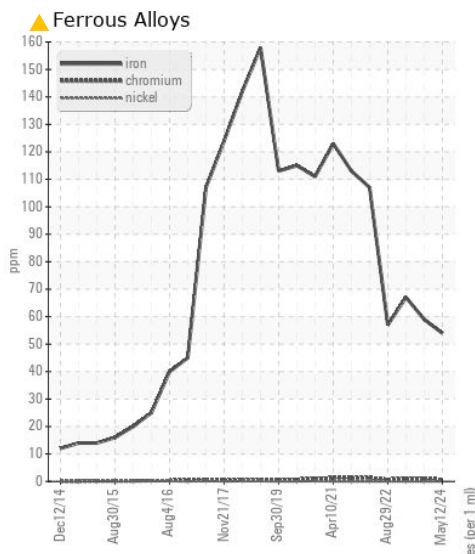
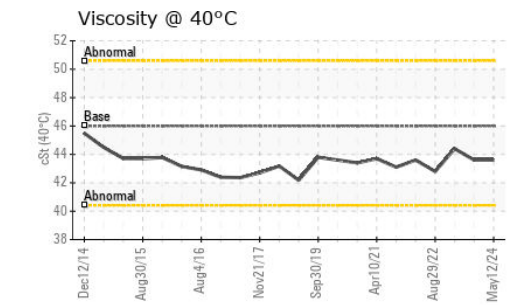
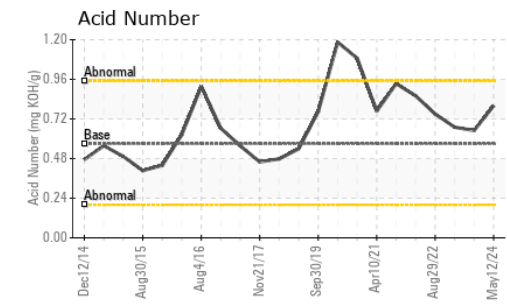
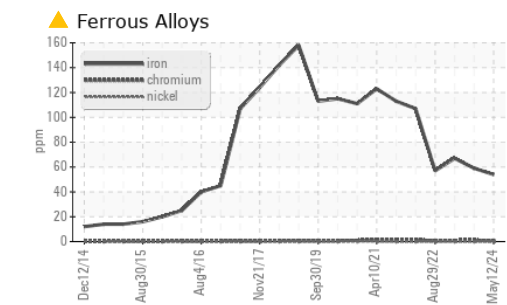
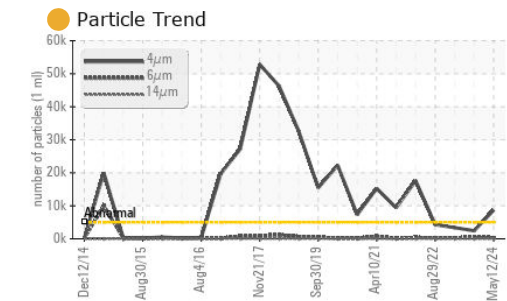
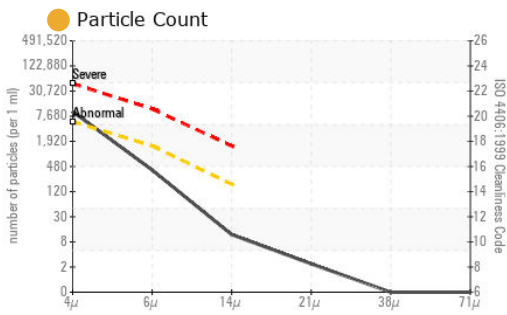
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	16	15	16
Potassium	ppm	ASTM D5185m	>20	1	1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	● 8665	2444	3377
Particles >6µm		ASTM D7647	>1300	348	394	339
Particles >14µm		ASTM D7647	>160	10	29	28
Particles >21µm		ASTM D7647	>40	2	7	7
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 20/16/10	18/16/12	19/16/12
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	4	0
Boron	ppm	ASTM D5185m	5	8	10	7
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	3	4	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	25	15	4	15
Calcium	ppm	ASTM D5185m	200	982	929	919
Phosphorus	ppm	ASTM D5185m	300	552	554	528
Zinc	ppm	ASTM D5185m	370	615	599	622
Sulfur	ppm	ASTM D5185m	2500	2341	2467	2350
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.80	0.65	0.67
Visc @ 40°C	cSt	ASTM D445	46	43.6	43.6	44.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : CL0005433
Lab Number : 06190987
Unique Number : 11047739
Test Package : CONST
Received : 24 May 2024
Tested : 30 May 2024
Diagnosed : 30 May 2024 - Angela Borella

PEDULLA
 146 MCLELLAND
 MOORESVILLE, NC
 US 28115
 Contact: LARRY

Certificate L2367
 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)