



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Area  
**Store 2 - Beaver [RO#150904]**  
Machine Id  
**KOMATSU D65 91599**  
Component  
**Hydraulic System**  
Fluid  
**AW HYDRAULIC OIL ISO 46 (13 GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0051763	LEC0047517	---
Sample Date		Client Info		22 May 2024	01 Feb 2024	---
Machine Age	hrs	Client Info		4618	4073	---
Oil Age	hrs	Client Info		545	4073	---
Filter Age	hrs	Client Info		545	0	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		Not Changed	Changed	---
Sample Status				ATTENTION	ABNORMAL	---

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		16	7	---
Iron	ppm	ASTM D5185m	>20	0	2	---
Chromium	ppm	ASTM D5185m	>10	0	0	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>10	<1	2	---
Lead	ppm	ASTM D5185m	>10	0	▲ 17	---
Copper	ppm	ASTM D5185m	>75	0	20	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

## CONTAMINATION

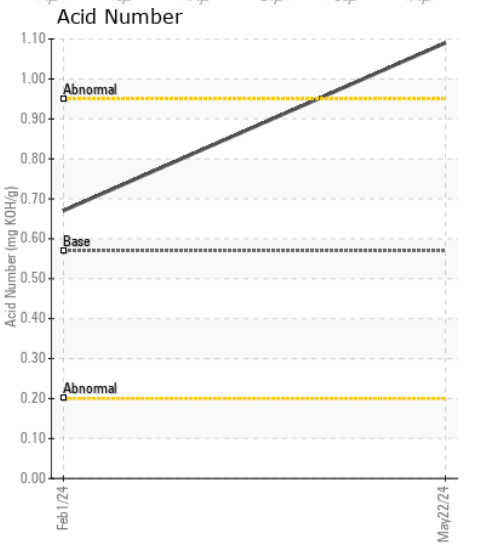
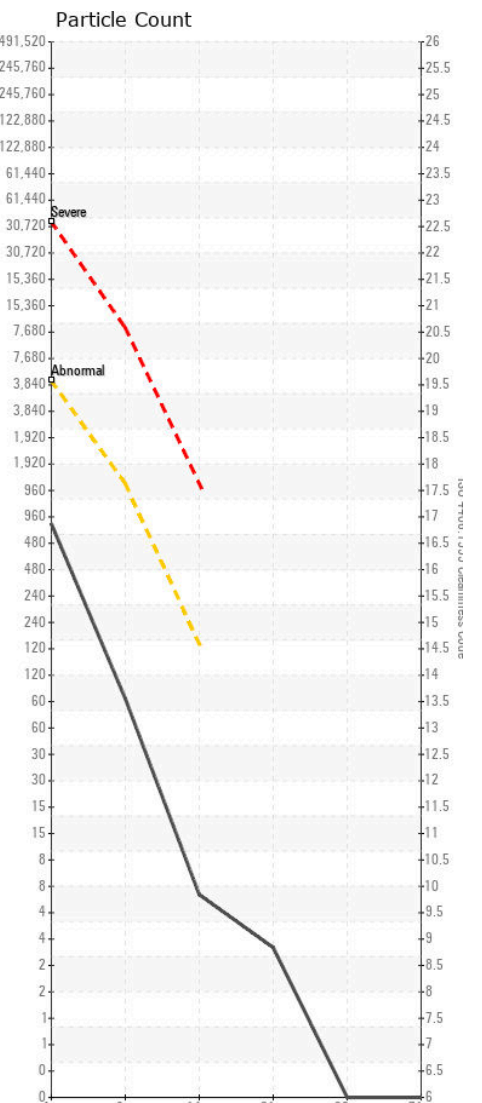
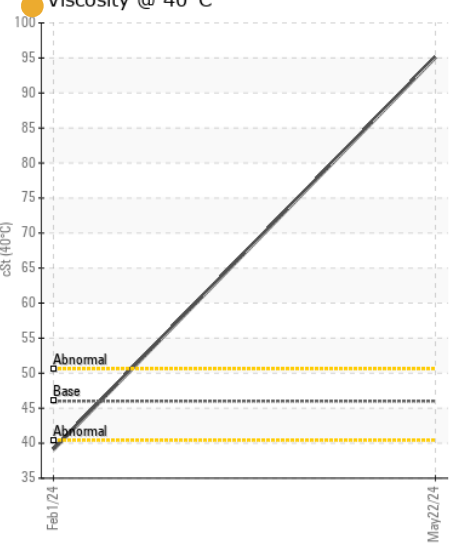
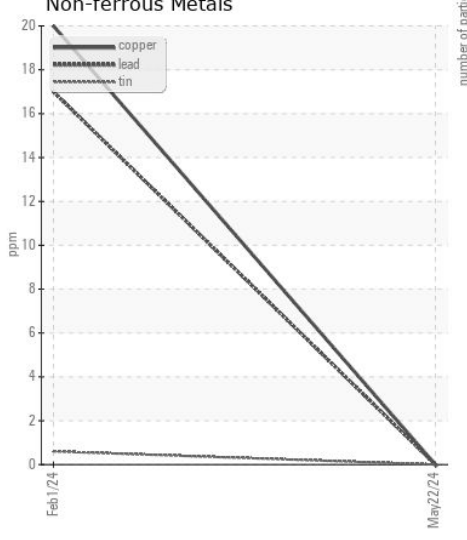
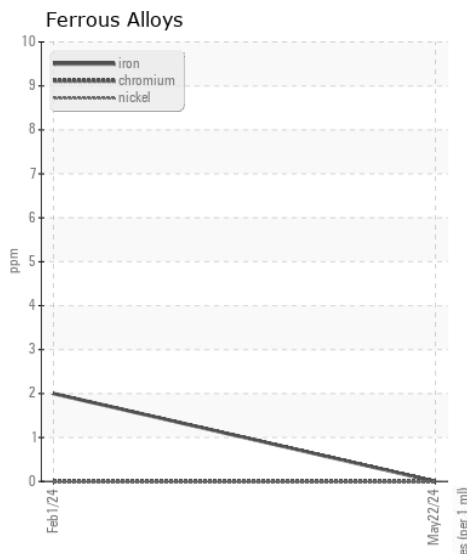
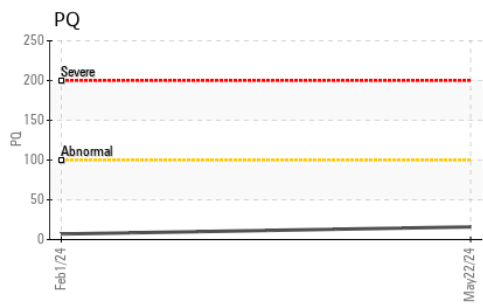
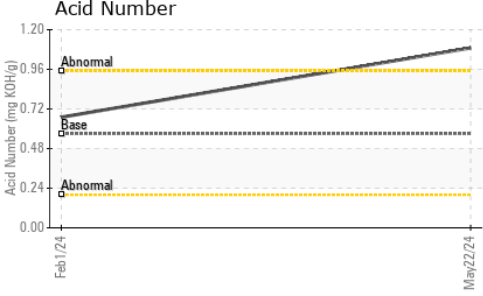
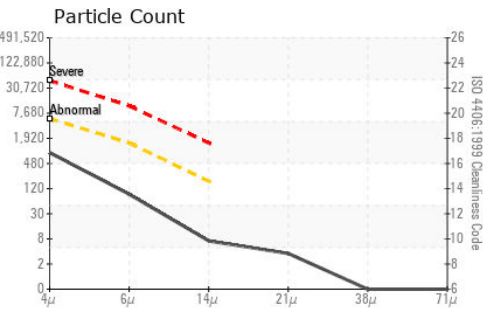
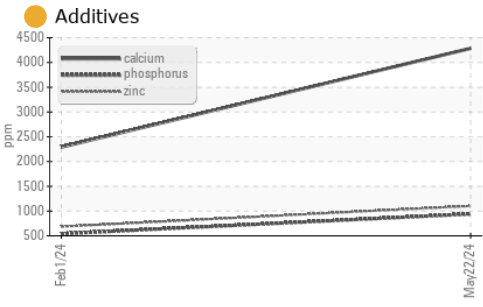
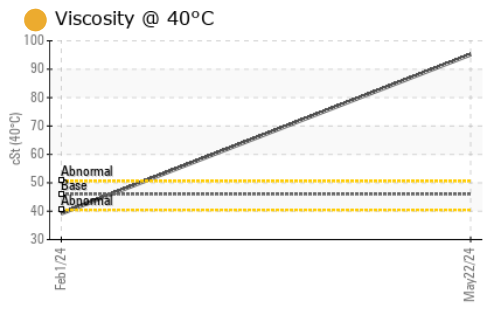
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	15	9	---
Potassium	ppm	ASTM D5185m	>20	0	0	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	770	▲ 24730	---
Particles >6µm		ASTM D7647	>1300	78	● 2135	---
Particles >14µm		ASTM D7647	>160	6	32	---
Particles >21µm		ASTM D7647	>40	3	7	---
Particles >38µm		ASTM D7647	>10	0	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/13/10	▲ 22/18/12	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

## FLUID CONDITION

The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<1	2	---
Boron	ppm	ASTM D5185m	5	5	0	---
Barium	ppm	ASTM D5185m	5	0	0	---
Molybdenum	ppm	ASTM D5185m	5	<1	<1	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m	25	14	0	---
Calcium	ppm	ASTM D5185m	200	● 4285	● 2291	---
Phosphorus	ppm	ASTM D5185m	300	● 941	● 542	---
Zinc	ppm	ASTM D5185m	370	● 1103	● 685	---
Sulfur	ppm	ASTM D5185m	2500	● 6856	● 5975	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	1.09	0.67	---
Visc @ 40°C	cSt	ASTM D445	46	● 95.1	39.1	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0051763 **Received** : 24 May 2024  
**Lab Number** : 06190945 **Tested** : 30 May 2024  
**Unique Number** : 11047697 **Diagnosed** : 30 May 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: PQ )

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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)