**OIL ANALYSIS REPORT** 

**WEAR** CONTAMINATION **FLUID CONDITION** 

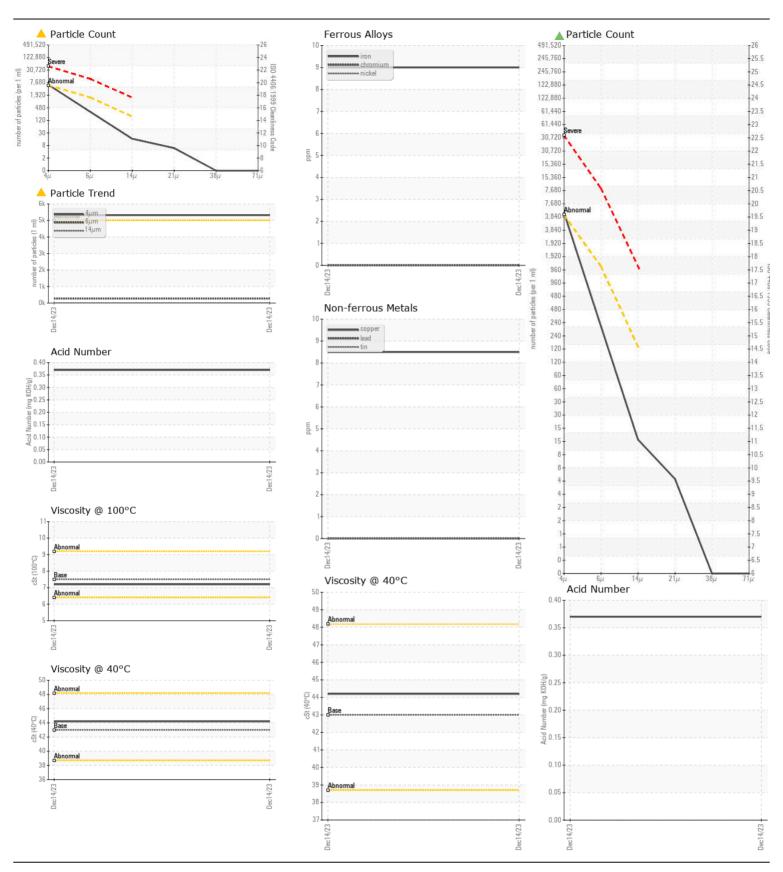
**NORMAL ATTENTION NORMAL** 

## **KUBOTA SV-90 KUBOTA SV-90**

Component Hydraulic System

**SAE 5W20 (--- QTS)** 

RECOMMENDATION  No corrective action is recommended at this time. Resample at the next service interval to monitor.  No corrective action is recommended at this time. Resample at the next service interval to monitor.  Sample Da Machine Ag Oil Age Filter Age Oil Change Filter Chan Sample State State Change State Change Filter Change State Change Filter Change Filte	e e hrs hrs hrs hrs diged tus ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	Method Client Info ASTM D5185m	>10 >10 >10 >10	Current TR06055365 14 Dec 2023 0 0 0 Not Changd Not Changd ATTENTION  9 0 0 0	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.  Machine Action Actio	e e hrs hrs hrs hrs diged tus ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	Client Info ASTM D5185m	>10 >10 >10 >10	14 Dec 2023 0 0 0 Not Changd Not Changd ATTENTION 9 0 0		
next service interval to monitor.  Machine Ag Oil Age Filter Age Oil Change Filter Chan Sample Sta  WEAR  All component wear rates are normal.  Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met  CONTAMINATION  There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.  Machine Ag Oil Age Filter Age Oil Change Filter Chan Sample Sta  Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met	e hrs hrs hrs d led tus  ppm ppm ppm ppm ppm ppm ppm ppm ppm p	Client Info ASTM D5185m	>10 >10 >10 >10	0 0 0 Not Changd Not Changd ATTENTION 9 0		
Oil Age Filter Age Oil Change Filter Chan Sample Sta  WEAR  All component wear rates are normal.  Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met  CONTAMINATION  There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.  Oil Age Filter Age Oil Change Filter Chan Sample Sta  Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met	hrs hrs hrs d led tus  ppm ppm ppm ppm ppm ppm ppm ppm ppm p	Client Info Client Info Client Info Client Info Client Info Client Info ASTM D5185m	>10 >10 >10 >10	0 0 Not Changd Not Changd ATTENTION 9 0		
Filter Age Oil Change Filter Chan Sample Sta  WEAR  All component wear rates are normal.  Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met  CONTAMINATION  There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.  Filter Age Oil Change Filter Chan Sample Sta  Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met  Vanadium White Meta Yellow Met	ppm	Client Info Client Info Client Info Client Info ASTM D5185m	>10 >10 >10 >10	O Not Changd Not Changd ATTENTION 9 0		
Oil Change Filter Chan Sample Sta  WEAR  All component wear rates are normal.  Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met  CONTAMINATION  There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.  Oil Change Filter Chan Sample Sta	ppm	Client Info Client Info Client Info  ASTM D5185m	>10 >10 >10 >10	Not Changd Not Changd ATTENTION 9 0	   	
Filter Chan Sample Sta  WEAR  All component wear rates are normal.  Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met  CONTAMINATION  There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	ppm	ASTM D5185m	>10 >10 >10 >10	Not Changd ATTENTION 9 0		
WEAR  All component wear rates are normal.  All component wear rates are normal.  Aluminum Lead Copper Tin Vanadium White Meta Yellow Met  CONTAMINATION  There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.  Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met	ppm	ASTM D5185m	>10 >10 >10 >10	9 0 0	  	
WEAR  All component wear rates are normal.  All component wear rates are normal.  Nickel  Titanium Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met  CONTAMINATION  There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>10 >10 >10 >10	9 0 0		
All component wear rates are normal.  Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met  CONTAMINATION  There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.  Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>10 >10 >10 >10	0 0		
All component wear rates are normal.  Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met  CONTAMINATION  There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.  Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met Yellow Met	ppm ppm ppm ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>10 >10 >10 >10	0		
Titanium Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met  CONTAMINATION  There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.  Silicon Potassium Water Particles >2	ppm ppm ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>10 >10			
Silver Aluminum Lead Copper Tin Vanadium White Meta Yellow Met  CONTAMINATION  There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.  Silicon Potassium Water Particles >2	ppm ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>10	0		
Aluminum Lead Copper Tin Vanadium White Meta Yellow Met  CONTAMINATION Silicon Potassium There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Water Particles >2	ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>10			
Lead Copper Tin Vanadium White Meta Yellow Met  CONTAMINATION Silicon Potassium There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.  Water Particles >2	ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m	>10	0		
Copper Tin Vanadium White Meta Yellow Met  CONTAMINATION  Silicon Potassium There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.  Water Particles >2	ppm ppm ppm scalar	ASTM D5185m ASTM D5185m		<1		
Tin Vanadium White Meta Yellow Met  CONTAMINATION Silicon Potassium There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Water Particles >2	ppm ppm scalar	ASTM D5185m		0		
Vanadium White Meta Yellow Met  CONTAMINATION Silicon Potassium There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Water Particles >2	ppm scalar			8		
White Meta Yellow Met  CONTAMINATION  Silicon Potassium  There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.  Water Particles >2	scalar		>10	0		
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.  Yellow Met  Potassium Water Particles >2		ASTM D5185m		0		
CONTAMINATION  There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.  Silicon Potassium Water Particles >4		*Visual	NONE	NONE		
There is a moderate amount of silt (particulates < 14 microns in size)  present in the oil.  Potassium  Water  Particles >4	ıl scalar	*Visual	NONE	NONE		
There is a moderate amount of silt (particulates < 14 microns in size)  present in the oil.  Potassium  Water  Particles >4	ppm	ASTM D5185m	>20	1		
There is a moderate amount of silt (particulates < 14 microns in size)  Water  Particles >4	ppm	ASTM D5185m		0		
present in the oil. Particles >4	PPIII	WC Method	>0.1	NEG		
	um	ASTM D7647		▲ 5321		
		ASTM D7647		272		
Particles >1		ASTM D7647		14		
Particles >2		ASTM D7647		5		
Particles >3	μm	ASTM D7647	>10	0		
Particles >7	μm	ASTM D7647	>3	0		
Oil Cleanlin	ess	ISO 4406 (c)	>19/17/14	<b>2</b> 0/15/11		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar		NORML	NORML		
Emulsified W	ater scalar	*Visual	>0.1	NEG		
FLUID CONDITION Sodium	nnm	ASTM D5185m		4		
FLUID CONDITION  Boron	ppm	ASTM D5185m		0		
The AN level is acceptable for this fluid. The condition of the oil is  Barium	ppm	ASTM D5185m		<1		
suitable for further service.  Molybdenu		ASTM D5185m		<1		
Manganese		ASTM D5105m		0		
Magnesium		ASTM D5105m		7		
Calcium	ppm	ASTM D5185m		158		
Phosphoru		ASTM D5185m		336		
Zinc	ppm	ASTM D5185m		384		
Sulfur	ppm	ASTM D5185m		1128		
Acid Number				0.37		
Visc @ 40°	, ,	ASTM D445	43.0	44.2		
Visc @ 100		ASTM D445		7.2		
Viscosity Index		ASTM D2270	1/11			





Certificate L2367

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

: 06055365 : 10821314

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06055365 Recieved : 09 Jan 2024 Diagnosed : 10 Jan 2024

Diagnostician : Don Baldridge Test Package : MOB 2 ( Additional Tests: KV100, VI )

To discuss this sample report, contact Customer Service at 1-800-827-0711.

\* - 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)

**WIE - WESTERN INDUSTRIAL EQUIPMENT** 

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Contact: JOHN HIGGINS

T: F: