

WEAR CONTAMINATION FLUID CONDITION

SEVERE

ABNORMAL

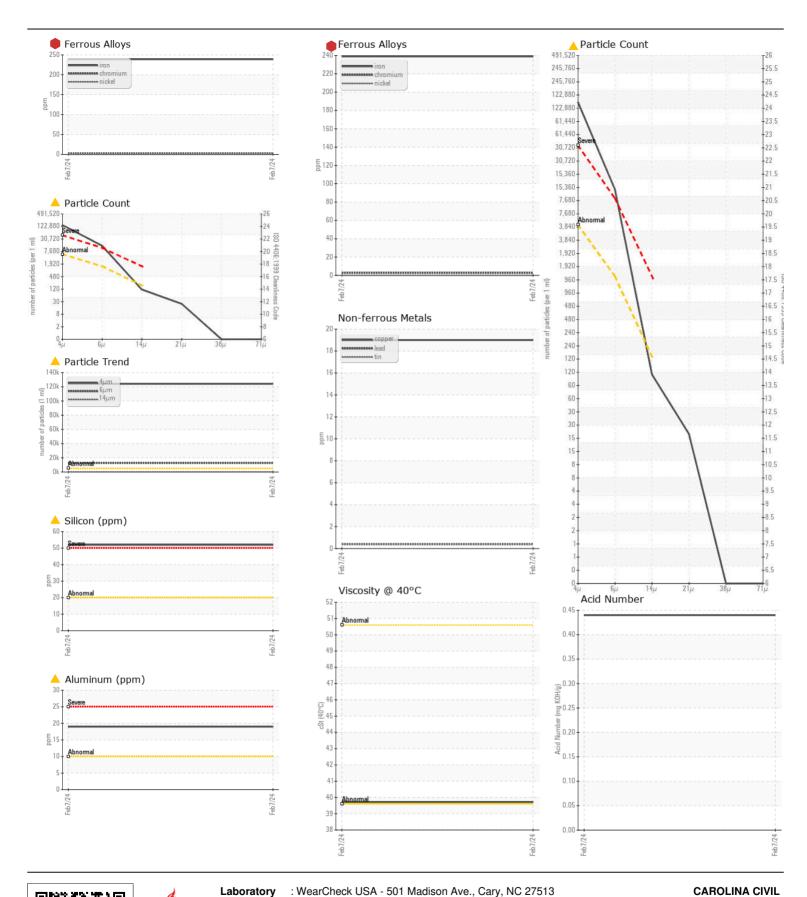
NORMAL



CATERPILLAR 305E2 40.004 (S/N H5M02566)

Component
Hydraulic System
Fluid

{not prov	vided} (GAL)							
RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
		Sample Number	OOW	Client Info	LIIIIII/ADII	JR0191539		
We advise that you check all areas wh	nere dirt can enter the system. Oil	Sample Date		Client Info		07 Feb 2024		
and filter change at the time of sampling	ng has been noted. We advise	Machine Age	hrs	Client Info		6066		
that you inspect for the source(s) of we	ear. We recommend an early	Oil Age	hrs	Client Info		2000		
resample to monitor this condition.		Filter Age	hrs	Client Info		2000		
		Oil Changed	1110	Client Info		Changed		
		Filter Changed		Client Info		Changed		
		Sample Status				SEVERE		
WEAR	PQ		ASTM D8184		29			
		Iron	ppm	ASTM D5185m	>20	239		
The iron level is severe.		Chromium	ppm	ASTM D5185m		3		
		Nickel	ppm	ASTM D5185m		0		
		Titanium	ppm	ASTM D5185m		1		
		Silver	ppm	ASTM D5185m		0		
		Aluminum	ppm	ASTM D5185m	>10	1 9		
		Lead	ppm	ASTM D5185m	>10	<1		
		Copper	ppm	ASTM D5185m	>75	19		
		Tin	ppm	ASTM D5185m	>10	<1		
		Vanadium	ppm	ASTM D5185m		0		
		White Metal	scalar	*Visual	NONE	NONE		
		Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION		Silicon	ppm	ASTM D5185m	>20	<u>▲</u> 52		
		Potassium	ppm	ASTM D5185m	>20	2		
There is a high amount of silt (particulates < present in the oil. Elemental levels of silicon indicate alumina-silicate (coarse dirt) ingress	,	Water	1-1-	WC Method		NEG		
	` '	Particles >4µm		ASTM D7647	>5000	124044		
		Particles >6µm		ASTM D7647		12611		
		Particles >14µm		ASTM D7647	>160	100		
		Particles >21µm		ASTM D7647	>40	21		
		Particles >38µm		ASTM D7647	>10	0		
		Particles >71µm		ASTM D7647	>3	0		
		Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> 24/21/14</u>		
		Silt	scalar	*Visual	NONE	NONE		
		Debris	scalar	*Visual	NONE	NONE		
		Sand/Dirt	scalar	*Visual	NONE	NONE		
		Appearance	scalar	*Visual	NORML	NORML		
		Odor	scalar	*Visual	NORML	NORML		
		Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION		Sodium	ppm	ASTM D5185m		3		
		Boron	ppm	ASTM D5185m		<1		
The AN level is acceptable for this fluid	d.	Barium	ppm	ASTM D5185m		0		
		Molybdenum	ppm	ASTM D5185m		<1		
		Manganese	ppm	ASTM D5185m		2		
		Magnesium	ppm	ASTM D5185m		0		
		Calcium	ppm	ASTM D5185m		111		
		Phosphorus	ppm	ASTM D5185m		463		
		Zinc	ppm	ASTM D5185m		583		
		Sulfur	ppm	ASTM D5185m		1470		
		Acid Number (AN)	mg KOH/g	ASTM D8045		0.44		
	Visc @ 40°C	cSt	ASTM D445		39.7			





Certificate L2367

Laboratory Sample No.

: JR0191539 Lab Number : 06087146

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received **Tested** Unique Number : 10874591 Test Package : MOBCE (Additional Tests: PQ)

Diagnosed

: 13 Feb 2024 : 14 Feb 2024

: 14 Feb 2024 - Don Baldridge

CLOVER, SC US 29710 Contact: ROY TAYLOR roy.taylor@carolinacivil.net T: (803)818-7309

6213 OAK RIDGE RD

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)

Contact/Location: ROY TAYLOR - CARCLO