WEAR CONTAMINATION FLUID CONDITION

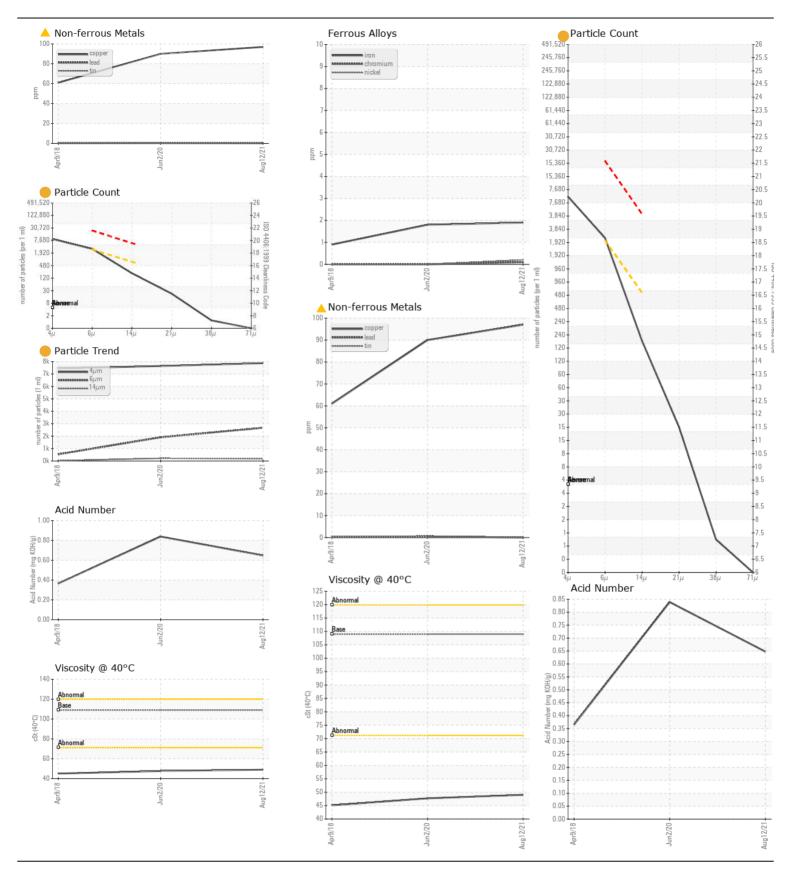
ABNORMAL
ATTENTION
NORMAL

OKLAHOMA/102/EG - CRANE

22.67L [OKLAHOMA^102^EG - CRANE]

Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0606231	WC0465348	WCCF395
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		12 Aug 2021	02 Jun 2020	09 Apr 201
	Machine Age	hrs	Client Info		5074	4160	2932
	Oil Age	hrs	Client Info		914	1000	0
	Filter Age	hrs	Client Info		0	1000	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ATTENTIO
WEAR	Iron	ppm	ASTM D5185m	>20	2	2	<1
V E/ VI C	Chromium	ppm	ASTM D5185m		- <1	0	0
The copper level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		1	1	<1
	Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m		<u></u> 497	4 90	61
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	-20	7	6	<1
	Potassium	ppm	ASTM D5185m		5	<1	<1
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Water	ррпп	WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	70.1	7870	7640	7458
	Particles >6µm		ASTM D7647	>2500	2667	1906	536
	Particles >14µm		ASTM D7647		181	215	21
	Particles >21µm		ASTM D7647		19	58	17
	Particles >38µm		ASTM D7647		1	3	11
	Particles >71μm		ASTM D7647	>10	0	0	3
	Oil Cleanliness		ISO 4406 (c)	>/18/16	20/19/15	20/18/15	20/16/1
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
LUID CONDITION	Sodium		ACTM DE10E			4	0
FLUID CONDITION	Boron	ppm	ASTM D5185m ASTM D5185m	0	2 77	1 96	0
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		<1	<1	0
	Manganese	ppm	ASTM D5185m	U	<1 <1	<1	<1
	Magnesium	ppm	ASTM D5185m	0	39	11	5
	Calcium	ppm	ASTM D5185m	U	2440	2339	16
	Phosphorus	ppm	ASTM D5185m		881	814	294
	Zinc	ppm	ASTM D5185m		1079	1050	352
	Sulfur	ppm	ASTM D5185m		4940	3960	3766
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.648	0.839	0.365
	Visc @ 40°C	cSt	ASTM D445			47.7	45.12





Certificate L2367

Laboratory Sample No. Lab Number

: WC0606231 : 05332674 Unique Number: 9631672 Test Package : MOBCE

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Aug 2021 **Tested**

: 24 Aug 2021 : 24 Aug 2021 - Jonathan Hester Diagnosed

SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST

WICHITA, KS US 67213 Contact: DOUG KING

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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)

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