



Mobile Fleet Machine Id 348 - BOOM PIN CAVITY 348 - BOOM PIN CAVITY Component Top Right Gearbox

{not provided} (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

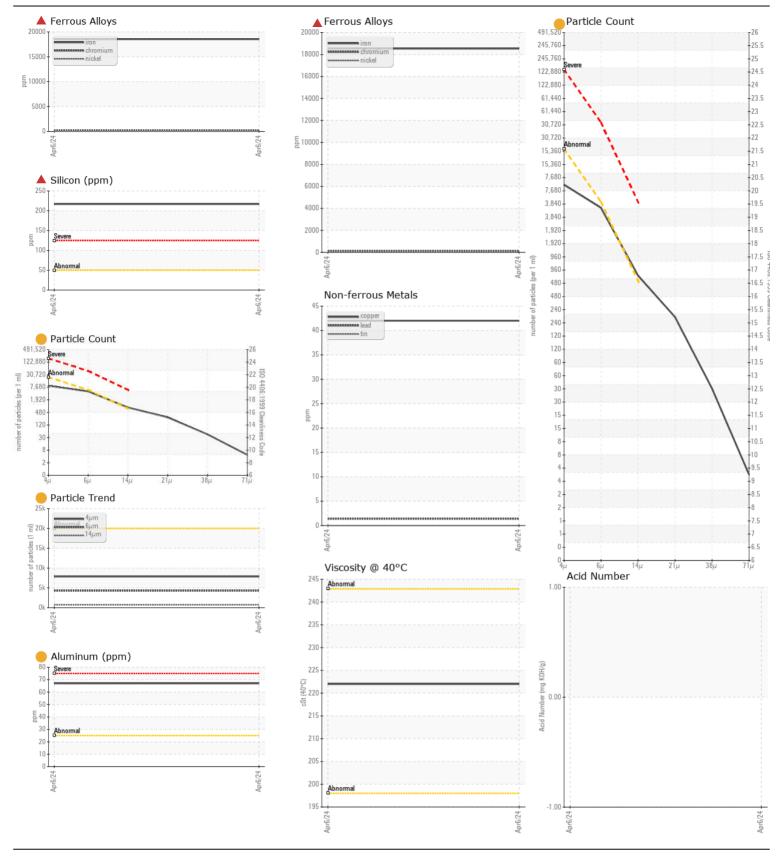
CONTAMINATION

There is a moderate amount of particulates present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0918652		
Sample Date		Client Info		06 Apr 2024		
Machine Age	hrs	Client Info		31991		
Oil Age	hrs	Client Info		1209		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status		0.101.11.10		SEVERE		
Iron	ppm	ASTM D5185m	>200	18537		
Chromium	ppm	ASTM D5185m	>10	1 36		
Nickel	ppm	ASTM D5185m	>10	A 39		
Titanium	ppm	ASTM D5185m		9		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	67		
Lead	ppm	ASTM D5185m	>50	1		
Copper	ppm	ASTM D5185m	>200	42		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		2		
White Metal	scalar	*Visual	NONE	- NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
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Silicon	ppm	ASTM D5185m	>50	1 217		
Potassium	ppm	ASTM D5185m	>20	14		
Water	%	ASTM D6304	>0.2	0.130		
ppm Water	ppm	ASTM D6304	>2000	1300		
Particles >4µm		ASTM D7647	>20000	7861		
Particles >6µm		ASTM D7647	>5000	4283		
Particles >14µm		ASTM D7647	>640	729		
Particles >21µm		ASTM D7647	>160	246		
Particles >38µm		ASTM D7647	>40	38		
Particles >71µm		ASTM D7647	>10	4		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	0/19/17		
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	>0.2	0.2%		
Sodium	ppm	ASTM D5185m		20		
Boron	ppm	ASTM D5185m		40		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		32		
Manganese	ppm	ASTM D5185m		204		
Magnesium	ppm	ASTM D5185m		28		
Calcium	ppm	ASTM D5185m		270		
Phosphorus	ppm	ASTM D5185m		614		
Zinc	ppm	ASTM D5185m		554		
Sulfur	ppm	ASTM D5185m		15009		
Visc @ 40°C	cSt	ASTM D445		222		



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **CAROLINA SUNROCK** Sample No. PO BOX 25 : WC0918652 Received : 22 Apr 2024 Lab Number : 06156819 BUTNER, NC Tested : 24 Apr 2024 : 24 Apr 2024 - Jonathan Hester US 27509 Unique Number : 10992242 Diagnosed Test Package : CONST (Additional Tests: KF, PrtCount) Contact: Leigh Dennis Certificate L2367 rdennis@thesunrockgroup.com 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. T: (919)575-4505 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)575-0162

Contact/Location: Leigh Dennis - CARBUTNC Page 2 of 2