

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

**NORMAL ABNORMAL NORMAL** 

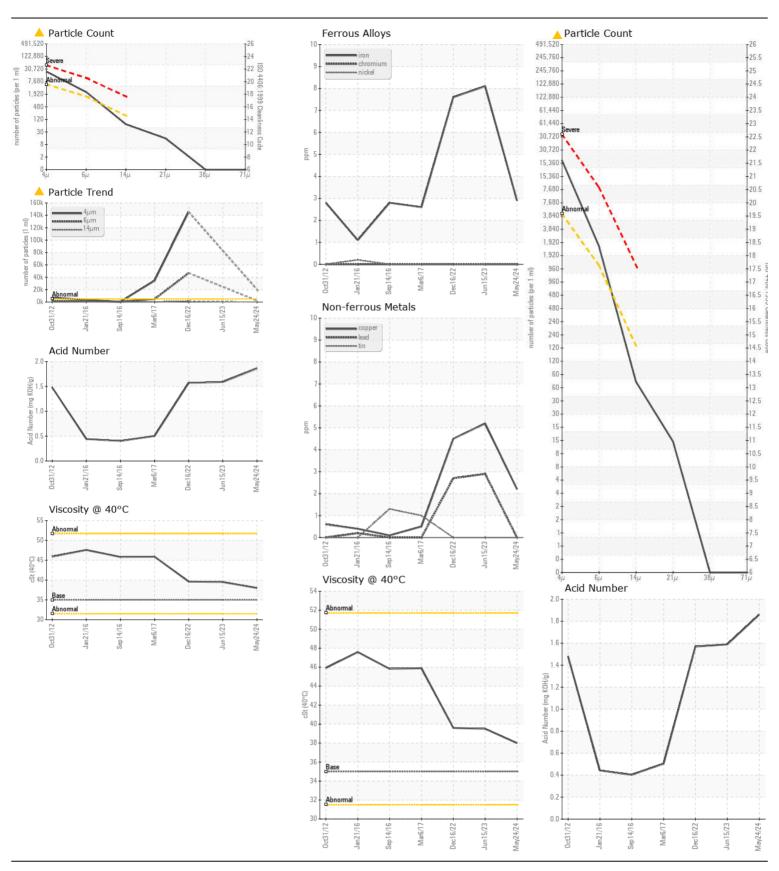
## MCAVOY MCDOUGAL

783 783

Hydraulic System

SAF 10W (65 GAL)

SAE 10W (65 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOCIVINICIDATION	Sample Number	OOW	Client Info	LITTIU/ADTI	WC0939229	,	WC0770840
No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		24 May 2024	15 Jun 2023	16 Dec 2022
	Machine Age	hrs	Client Info		3226	3033	2652
	Oil Age	hrs	Client Info		1366	1173	471
	Filter Age	hrs	Client Info		1366	1173	471
	Oil Changed	1110	Client Info		Changed	Changed	Not Changd
	Filter Changed		Client Info		Not Changd	Changed	Changed
	Sample Status		Chone hino		ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>20	3	8	8
WEAT	Chromium	ppm	ASTM D5185m		0	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	7.0	0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	0	0	<1
	Lead	ppm	ASTM D5185m		0	3	3
	Copper	ppm	ASTM D5185m		2	5	4
	Tin	ppm	ASTM D5185m		0	0	0
	Vanadium	ppm	ASTM D5185m	710	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	▲ MODER	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3	3	4
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m	>20	0	2	0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>5000	<u> </u>		<u>▲</u> 145468
	Particles >6µm		ASTM D7647	>1300	<b>2147</b>		<b>46784</b>
	Particles >14µm		ASTM D7647	>160	62		<b>1</b> 495
	Particles >21µm		ASTM D7647	>40	13		<u>^</u> 209
	Particles >38µm		ASTM D7647	>10	0		0
	Particles >71µm		ASTM D7647		0		0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>22/18/13</u>		<b>4</b> 24/23/18
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
ELUID CONDITION	Codium	nnm	ASTM D5185m		.4	0	0
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m		<1 0	0 5	2
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium		ASTM D5165III		0	0	<1
	Molybdenum	ppm	ASTM D5185m		3	1	1
	Manganese	ppm	ASTM D5165III		0	0	<1
	Magnesium	ppm	ASTM D5185m		763	617	614
	Calcium	ppm	ASTM D5185m		154	424	441
	Phosphorus		ASTM D5185m		1220	1049	996
	Zinc	ppm	ASTM D5185m		1361	1202	1153
	Sulfur	ppm	ASTM D5185m		8742	7634	7740
	Acid Number (AN)	mg KOH/g	ASTM D3103111		1.86	1.59	1.57
	Visc @ 40°C	cSt	ASTM D6045	35.0	38.0	39.5	39.6
	1100 @ 10 0	001	. 10 1111 1170	00.0	00.0	00.0	00.0





Certificate L2367

Laboratory Sample No. Lab Number

: WC0939229 : 06193854 Unique Number : 11055977 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 May 2024 **Tested** 

Diagnosed

: 30 May 2024

: 31 May 2024 - Jonathan Hester

PO BOX 25 BUTNER, NC US 27509 Contact: Leigh Dennis rdennis@thesunrockgroup.com

**CAROLINA SUNROCK** 

T: (919)575-4505

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) F: (919)575-0162