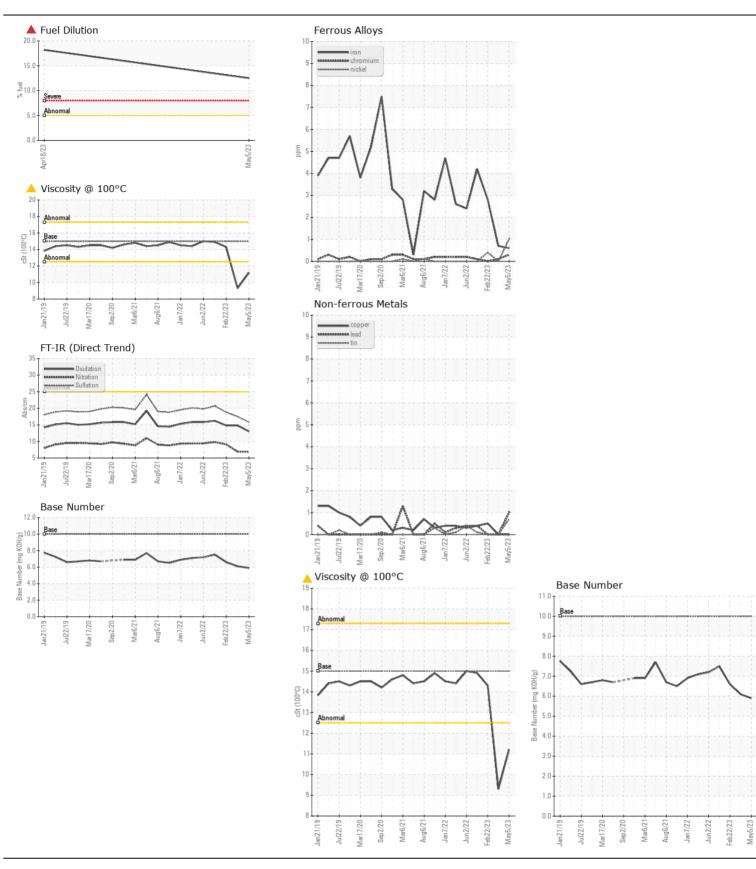
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE ABNORMAL

Machine Id

MANITOWOC MLC 300 015-0067

Component Diesel Engine							
Fluid							
SCHAEFFER SUPREME 7000 (12 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TESSIMILETERATION	Sample Number		Client Info	21111071011	WC0815147	WC0750687	WC0750632
We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Date		Client Info		05 May 2023	18 Apr 2023	22 Feb 2023
	Machine Age	hrs	Client Info		7883	7794	7606
	Oil Age	hrs	Client Info		42	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		Not Changd	Changed	Changed
	Sample Status				SEVERE	SEVERE	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>90	<1	<1	3
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	0
	Nickel	ppm	ASTM D5185m		1	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		0	2	2
	Lead	ppm	ASTM D5185m		1	0	0
	Copper	ppm	ASTM D5185m		0	0	<1
	Tin	ppm	ASTM D5185m	>15	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	3	<1
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	<1	2
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524	>5	<u> </u>	▲ 18.2	<1.0
	Water	,-	WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0	0	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.9	6.9	9.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	15.8	17.5	18.8
	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	>0.2	NEG	NEG	NEG
EL LUD CONDITION	On divine		AOTM DE40E				
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1 70	2	0
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		78 0	81	72
oil. Fuel is present in the oil and is lowering the viscosity. The oil is no	Barium	ppm	ASTM D5185m	50	0 57	0	2
longer serviceable due to the presence of contaminants.	Managanasa	ppm	ASTM D5185m ASTM D5185m	50	57	60	76 <1
	Manganese Magnesium	ppm	ASTM D5185m	1000	<1 18	<1 20	17
	Calcium	ppm	ASTM D5185m		1880	1744	2302
	Phosphorus	ppm	ASTM D5185m		916	839	1020
	Zinc	ppm	ASTM D5185m		1105	977	1185
	Sulfur	ppm	ASTM D5185m		5371	4951	4263
	Oxidation	Abs/.1mm	*ASTM D7414		13.0	14.8	14.8
	Base Number (BN)				5.9	6.1	6.6
	Visc @ 100°C	cSt	ASTM D2030		11.2 A	9.3	14.3
	VISC @ TOO C	COL	AOTIVI D440	13	11.2	<u> </u>	17.0







Certificate L2367

Report Id: AECCHATN [WUSCAR] 05842578 (Generated: 04/18/2024 15:42:31) Rev: 1

Laboratory Sample No.

Lab Number : 05842578

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0815147

Unique Number: 10466685

Tested Diagnosed

: 11 May 2023 - Wes Davis

Received

: 09 May 2023

: 11 May 2023

Test Package : CONST (Additional Tests: PercentFuel, TBN)

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)



5535 TRAILHEAD DRIVE CHATTANOOGA, TN

US 37415

Contact: DANIEL LISELLA daniel.lisella@shimmick.com

T: F:

Contact/Location: DANIEL LISELLA - AECCHATN