

Machine Id MANITOWOC MLC 300 015-0067 Component Diesel Engine Fluid SCHAEFFER SUPREME 7000 (12 GAL)

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

V	V	E	Δ	R
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All component wear rates are normal.

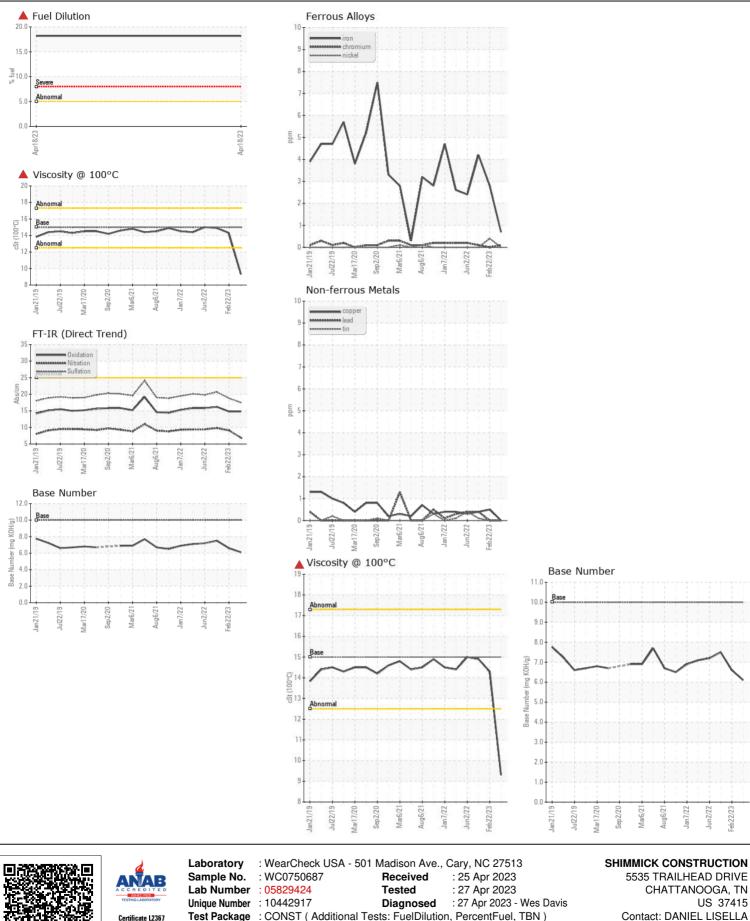
CONTAMINATION

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0750687	WC0750632	WC0698044
Sample Date		Client Info		18 Apr 2023	22 Feb 2023	11 Oct 2022
Machine Age	hrs	Client Info		7794	7606	7193
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>90	<1	3	4
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	0	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Social	visual	NONL		NONE	NONL
Silicon	ppm	ASTM D5185m	>25	3	<1	4
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Fuel	%	ASTM D3524	>5	18.2	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.9	9.1	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	18.8	20.7
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
					0	
Sodium	ppm	ASTM D5185m		2	0	1
Boron	ppm	ASTM D5185m		81	72	68
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m	50	60	76	74
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1000	20	17	21
Calcium	ppm	ASTM D5185m	1400	1744	2302	2278
Phosphorus	ppm	ASTM D5185m	985	839	1020	1019
Zinc	ppm	ASTM D5185m	1060	977	1185	1196
Sulfur	ppm	ASTM D5185m	4000	4951	4263	5765
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	14.8	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	10	6.1	6.6	7.5
Visc @ 100°C	cSt	ASTM D445	15	▲ 9.3	14.3	14.9
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 Certificate L2367
 Test Package
 : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)
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 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - 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)

Report Id: AECCHATN [WUSCAR] 05829424 (Generated: 04/18/2024 13:49:10) Rev: 1

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