

WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL ATTENTION



Mobile Fleet
7302 7302
Component
Diesel Engine
Fluid
MOBIL 15W40 (8 GAL)

REC	OM	MEN	IDA	TIO	N
nLC	CIVII	VI LI	NUA		

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0919103	WC0573540	WC0462455
	Sample Date		Client Info		12 Apr 2024	16 Apr 2021	14 May 2020
	Machine Age	hrs	Client Info		713	4816	4573
	Oil Age	hrs	Client Info		353	243	276
	Filter Age	hrs	Client Info		353	243	276
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
-							
	Iron	ppm	ASTM D5185m	>100	23	9	12
	Chromium	ppm	ASTM D5185m	>20	1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	0	<1	<1

WEAR

All component wear rates are normal.

Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>25	2	2	2
Lead	ppm	ASTM D5185m	>40	8	2	4
Copper	ppm	ASTM D5185m	>330	37	12	4
Tin	ppm	ASTM D5185m	>15	3	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE

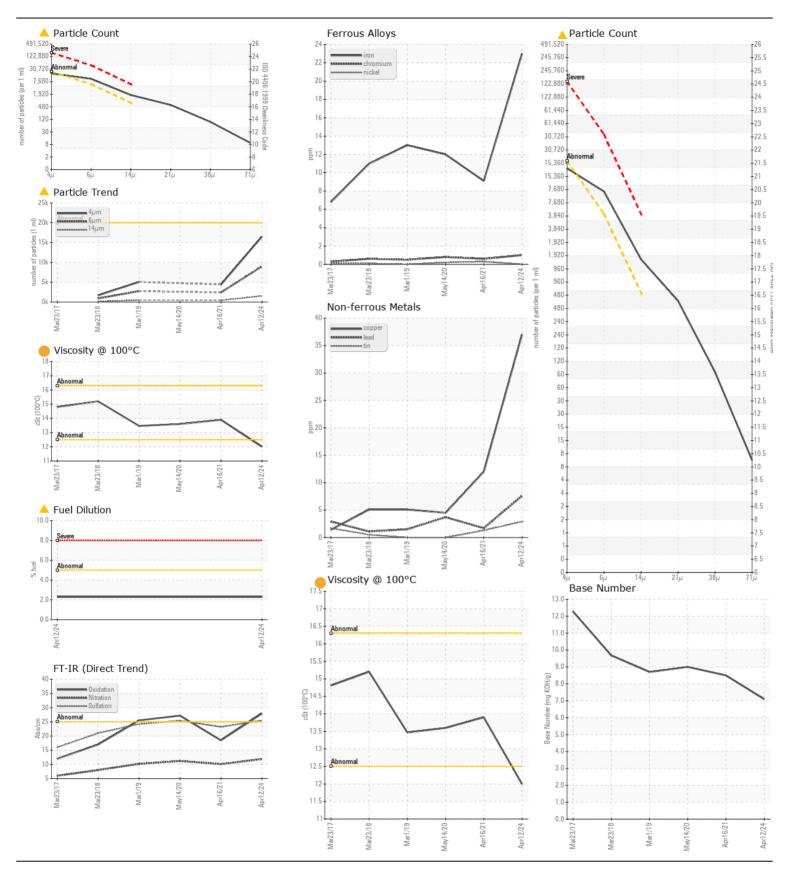
CONTAMINATION

There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

white Metal	scalar	^Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	4	<1	4
Potassium	ppm	ASTM D5185m	>20	0	4	1
Fuel	%	ASTM D3524	>5	2.3	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	11.9	10.1	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5	23.2	25.4
Particles >4µm		ASTM D7647	>20000	16503	4426	
Particles >6µm		ASTM D7647	>5000	8990	2411	
Particles >14µm		ASTM D7647	>640	1530	410	
Particles >21µm		ASTM D7647	>160	515	138	
Particles >38µm		ASTM D7647	>40	80	21	
Particles >71µm		ASTM D7647	>10	8	2	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/20/18	19/18/16	
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
Sodium	ppm	ASTM D5185m	>118	4	3	4
Boron	ppm	ASTM D5185m		42	87	50
Barium	ppm	ASTM D5185m		0	0	0

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.





Laboratory Sample No.

: WC0919103 Lab Number : 06150193

Unique Number : 10980271

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Apr 2024 **Tested** : 22 Apr 2024 Diagnosed

: 22 Apr 2024 - Jonathan Hester

CAROLINA SUNROCK PO BOX 25 BUTNER, NC US 27509

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, PrtCount, TBN) Certificate L2367 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.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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