

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Mobile Fleet [57231]

781 781

Component Diesel Engine

MOBIL 15W40 (12 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UOIVI	Client Info	LITTIL/ADT	WC0861697	WC0462488	WCMCF69202
Resample at the next service interval to monitor.			Client Info		24 Feb 2024		
resample at the next service interval to monitor.	Sample Date	bro				24 Apr 2020 7265	06 Feb 2019
	Machine Age	hrs	Client Info		7333	552	6713
	Oil Age	hrs	Client Info		170 170	552	1606
	Filter Age	hrs	Client Info Client Info				1606 Changed
	Oil Changed				Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>75	6	17	45
WEAN	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm		>5	<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		1	2	6
	Lead	ppm	ASTM D5185m	>20	<1	3	9
	Copper	ppm	ASTM D5185m		2	4	19
	Tin	ppm	ASTM D5185m	>5	 <1	0	1
	Vanadium	ppm	ASTM D5185m	>5	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		304141	Visual	NONL		NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>35	5	4	7
JOINT AMILIA HON	Potassium	ppm	ASTM D5185m		4	4	13
The system cleanliness is acceptable for your target ISO 4406	Fuel	1.	WC Method	>5	<1.0	<1.0	<1.0
cleanliness code. The system and fluid cleanliness is acceptable.	Water		WC Method		NEG	NEG	NEG
, , , ,	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.5	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	6.8	8.5	9.4
	Sulfation		*ASTM D7415		19.1	23.1	24.9
	Particles >4µm		ASTM D7647		2740		1102
	Particles >6µm		ASTM D7647	>5000	1493		600
	Particles >14µm		ASTM D7647	>640	254		102
	Particles >21µm		ASTM D7647	>160	86		34
	Particles >38µm		ASTM D7647	>40	13		5
	Particles >71µm		ASTM D7647	>10	1		0
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/15		17/16/14
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	4	10	6
	Boron	ppm	ASTM D5185m		85	42	34
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		1	0	0
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		10	40	39
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		555	468	471
	Calcium	ppm	ASTM D5185m		1081	1614	1631
	Dhaanahan	In the state	AOTM DEADE		0.40	007	070

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

Phosphorus ppm ASTM D5185m

ppm

Base Number (BN) mg KOH/g ASTM D2896

ASTM D5185m

Abs/.1mm *ASTM D7414 >25

ASTM D445

ppm ASTM D5185m

648

726

3423

13.7

7.7

13.6

697 678

826 2584

24.2

8.3

13.61

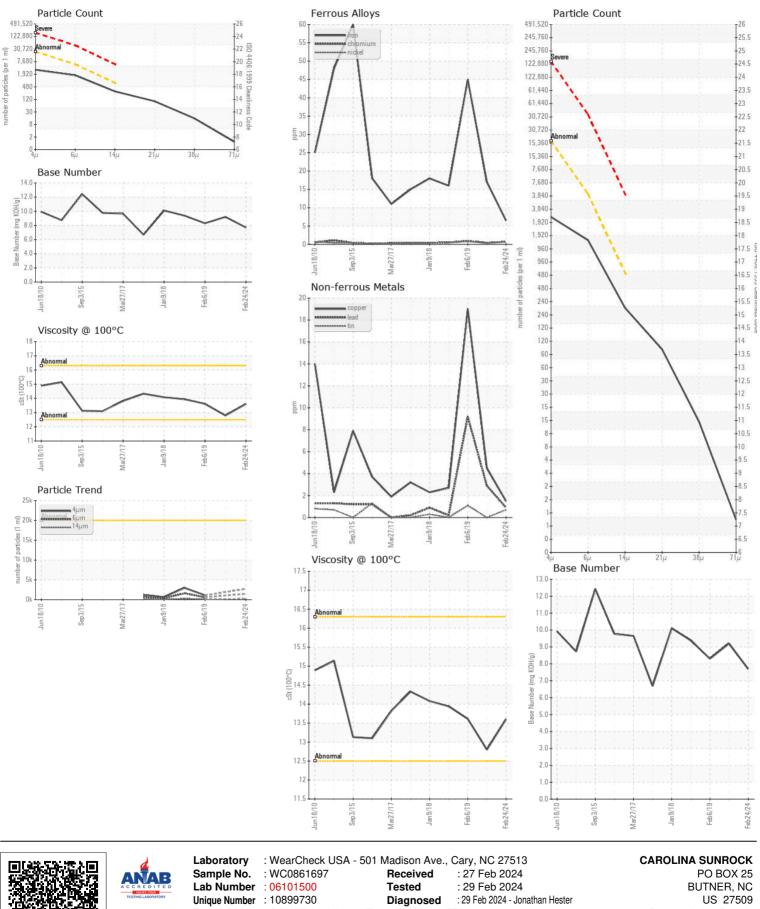
795

21.9

9.2

12.8

2494



 Unique Number
 : 10899730
 Diagnosed
 : 29 Feb 2024 - Jonathan Hester
 US 27509

 Certificate 12367
 Test Package
 : CONST (Additional Tests: PrtCount, TBN)
 Contact: Leigh Dennis

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 rdennis@thesunrockgroup.com

 * - 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