

## NORMAL WEAR CONTAMINATION ABNORMAL **FLUID CONDITION ABNORMAL**

**Mobile Fleet** 741 741

Diesel Engine

## MOBIL DELVAC 1300 SUPER15W40 (6 GAL)

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

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All component wear rates are normal.

RECOMMENDATION

## **CONTAMINATION**

There is a high amount of particulates present in the oil. There is a moderate amount of fuel present in the oil.

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Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

	Test	UOM	Method	Limit/Abn	C	urrent	History1	History2
	Sample Number		Client Info			C0861682	WC0867090	WC0834953
	Sample Date		Client Info			Jan 2024	06 Dec 2023	24 Jul 2023
	Machine Age	hrs	Client Info			8973	13582	13040
	Oil Age	hrs	Client Info		-	239	61	2322
	Filter Age	hrs	Client Info			239	61	2322
	Oil Changed	1115	Client Info			hanged	Changed	Changed
			Client Info			•	0	0
	Filter Changed		Client Into			hanged BNORMAL	Changed	Changed
	Sample Status				AE		ABNORMAL	ABNORMAL
	Iron	ppm	ASTM D5185m	>105		35	42	82
	Chromium	ppm	ASTM D5185m	>5		<1	<1	2
	Nickel		ASTM D5185m	>4		0	0	0
		ppm	ASTM D5185m			0	0	0
	Titanium	ppm				-		÷
	Silver	ppm	ASTM D5185m	>2		0	0	0
	Aluminum	ppm	ASTM D5185m			1	2	1
	Lead	ppm	ASTM D5185m	>15		0	0	0
	Copper	ppm	ASTM D5185m	>140		0	0	0
	Tin	ppm	ASTM D5185m	>4		0	0	<1
	Vanadium	ppm	ASTM D5185m			0	0	0
	White Metal	scalar	*Visual	NONE		NONE	NONE	NONE
_	Yellow Metal	scalar	*Visual	NONE		NONE	NONE	NONE
	0'''						_	
	Silicon	ppm	ASTM D5185m	>25		4	5	6
	Potassium	ppm	ASTM D5185m			0	<1	0
	Fuel	%	ASTM D3524	>5		5.2	<1.0	<1.0
	Water		WC Method	>0.2		NEG	NEG	NEG
	Glycol	e (	WC Method	<u>^</u>		NEG	NEG	NEG
	Soot %	%	*ASTM D7844			0.6	0.6	1
	Nitration	Abs/cm	*ASTM D7624	>20		8.6	8.1	9.8
	Sulfation	Abs/.1mm	*ASTM D7415			22.0	22.4	23.7
	Particles >4µm		ASTM D7647	>20000		67962	▲ 27091	▲ 54643
	Particles >6µm		ASTM D7647			37023	▲ 14758	A 29767
	Particles >14µm		ASTM D7647	>640		6301	A 2512	▲ 5066
	Particles >21µm		ASTM D7647			2122	A 846	▲ 1706
	Particles >38µm		ASTM D7647	>40		328	▲ 131	▲ 263
	Particles >71µm		ASTM D7647			33	▲ 13	▲ 27
	Oil Cleanliness		ISO 4406 (c)	>21/19/16		23/22/20	▲ 22/21/19	▲ 23/22/20
	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			2	3	2
	Boron	ppm	ASTM D5185m	0		58	57	48
	Barium	ppm	ASTM D5185m	0		0	0	0
	Molybdenum	ppm	ASTM D5185m			47	47	51
	Manganese	ppm	ASTM D5185m	-		 <1	0	<1
	Magnesium	ppm	ASTM D5185m	0		493	505	575
	Calcium	ppm	ASTM D5185m	U U		1595	1657	1843
	Phosphorus	ppm	ASTM D5185m			741	730	810
	Zinc	ppm	ASTM D5185m			858	925	1013
	Sulfur	ppm	ASTM D5185m			2195	2319	3045
	Oxidation	Abs/.1mm	*ASTM D7414	>25		20.2	20.7	22.3
	Base Number (BN)	mg KOH/g	ASTM D2896	9.4		8.9	9.6	9.3
		~C+	ACTM D44E	14		11.0	12.0	10.0

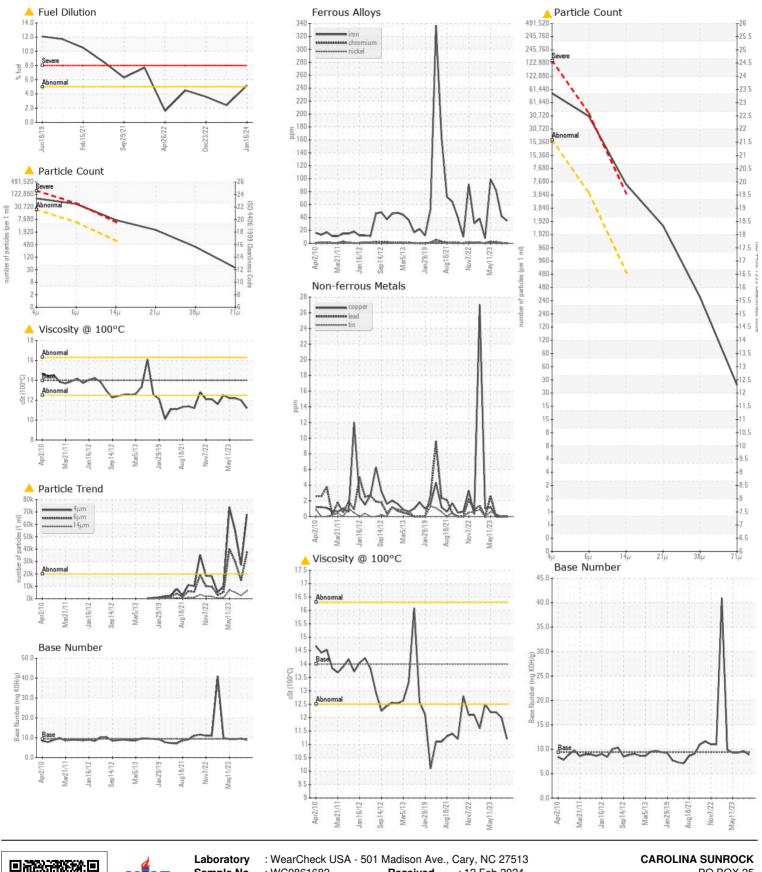
Visc @ 100°C cSt

ASTM D445 14

12.0

11.2

12.2



: WC0861682 : 12 Feb 2024 PO BOX 25 Sample No. Received : 06085939 Lab Number : 15 Feb 2024 BUTNER, NC Tested Unique Number : 10873384 : 15 Feb 2024 - Jonathan Hester US 27509 Diagnosed Test Package : CONST ( Additional Tests: FuelDilution, PercentFuel, PrtCount, TBN ) Contact: Leigh Dennis Certificate L2367 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

Contact/Location: Leigh Dennis - CARBUTNC