

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

History1

WC0919030 WC0861904 WC0867234

History2

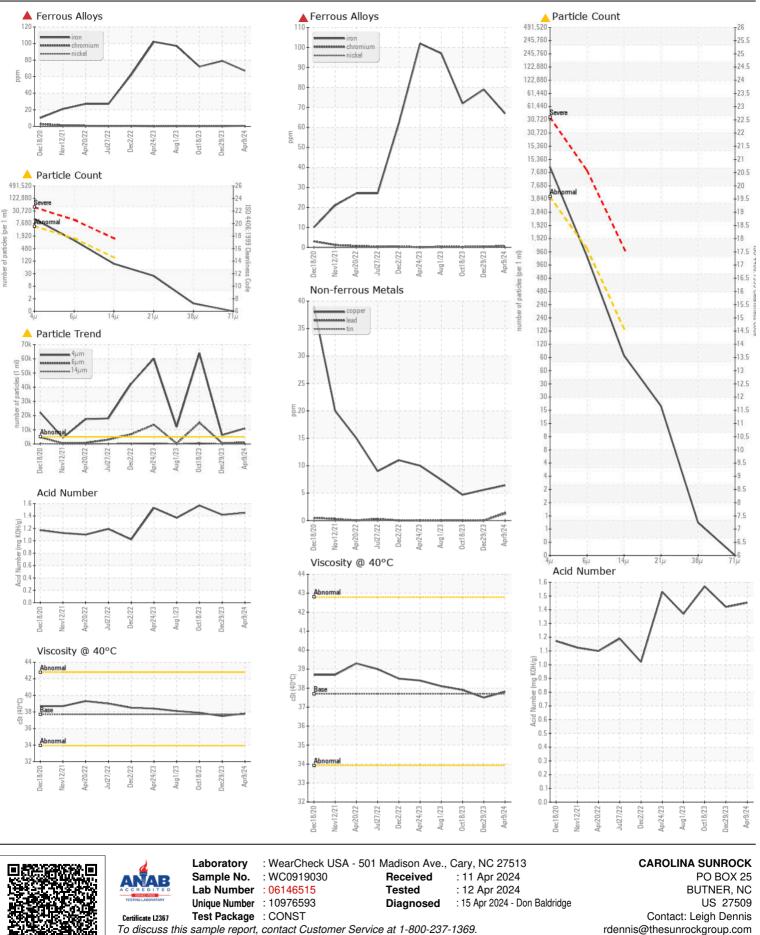


## **Mobile Fleet** 5215 5215 Hydraulic System

MOBIL HYDRAULIC 10W (38 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current
	Sample Number		Client Info		WC0919030
Oil and filter change at the time of sampling has been noted. We	Sample Date		Client Info		09 Apr 2024
recommend an early resample to monitor this condition.	Machine Age	hrs	Client Info		12329
	Oil Age	hrs	Client Info		2268
	Filter Age	hrs	Client Info		2268
	Oil Changed		Client Info		Changed
	Filter Changed		Client Info		Changed
	Sample Status				SEVERE
WEAR	Iron	ppm		>20	<b>6</b> 7
The iron level has decreased, but is still severe. All other component	Chromium	ppm	ASTM D5185m		<1
wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	<1
	Titanium	ppm	ASTM D5185m		<1
	Silver	ppm	ASTM D5185m	10	<1
	Aluminum	ppm	ASTM D5185m		1
	Lead	ppm	ASTM D5185m		1 6
	Copper	ppm	ASTM D5185m		-
	Tin	ppm	ASTM D5185m	>10	1 <1
	Vanadium	ppm	ASTM D5185m		
	White Metal Yellow Metal	scalar scalar	*Visual *Visual	NONE	NONE NONE
		Scalal	visuai	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6
<b></b>	Potassium	ppm	ASTM D5185m	>20	1
There is a high amount of silt (particulates < 14 microns in size)	Water		WC Method	>0.1	NEG
present in the oil.	Particles >4µm		ASTM D7647	>5000	<u> </u>
	Particles >6µm		ASTM D7647	>1300	1055
	Particles >14µm		ASTM D7647	>160	79
	Particles >21µm		ASTM D7647	>40	21
	Particles >38µm		ASTM D7647		1
	Particles >71µm		ASTM D7647		0
	Oil Cleanliness		ISO 4406 (c)		<u> </u>
	Silt	scalar	*Visual	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0
	Boron	ppm	ASTM D5185m		1
The AN level is acceptable for this fluid. The condition of the oil is	Barium	ppm	ASTM D5185m		0
acceptable for the time in service.	Molybdenum	ppm	ASTM D5185m		3
	Manganese	ppm	ASTM D5185m		2
	Magnesium	ppm	ASTM D5185m		582

Sample Number		Client into		WC0919030	WC0861904	VVC	50867234
Sample Date		Client Info		09 Apr 2024	29 Dec 2023	18	Oct 2023
Machine Age	hrs	Client Info		12329	11759	11	234
Oil Age	hrs	Client Info		2268	1698	11	73
Filter Age	hrs	Client Info		2268	1698 1173		73
Oil Changed		Client Info		Changed	Not Changd Not Cl		t Changd
Filter Changed		Client Info		Changed	Changed	Ch	nanged
Sample Status				SEVERE	SEVERE		EVERE
Iron	ppm	ASTM D5185m	>20	<b>6</b> 7	<b>1</b> 79		72
Chromium	ppm	ASTM D5185m	>10	<1	<1		<1
Nickel	ppm	ASTM D5185m	>10	<1	0		0
Titanium	ppm	ASTM D5185m		<1	0		0
Silver	ppm	ASTM D5185m		<1	0		0
Aluminum	ppm	ASTM D5185m	>10	1	2		2
Lead	ppm	ASTM D5185m	>10	1	0		0
Copper	ppm	ASTM D5185m	>75	6	6		5
Tin	ppm	ASTM D5185m	>10	1	0		<1
Vanadium	ppm	ASTM D5185m		<1	0		0
White Metal	scalar	*Visual	NONE	NONE	NONE		NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE		NONE
Silicon	ppm	ASTM D5185m	>20	6	6		7
Potassium	ppm	ASTM D5185m	>20	1	<1		0
Water		WC Method	>0.1	NEG	NEG		NEG
Particles >4µm		ASTM D7647	>5000	<u> </u>	6276		63999
Particles >6µm		ASTM D7647	>1300	1055	571		15024
Particles >14µm		ASTM D7647	>160	79	63		668
Particles >21µm		ASTM D7647	>40	21	16		128
Particles >38µm		ASTM D7647	>10	1	0		4
Particles >71µm		ASTM D7647	>3	0	0		0
Oil Cleanliness		ISO 4406 (c)		<u> </u>	20/16/13		23/21/17
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	>0.1	NEG	NEG		NEG
Sodium	ppm	ASTM D5185m		0	0		<1
Boron	ppm	ASTM D5185m		1	1		3
Barium	ppm	ASTM D5185m		0	0		0
Molybdenum	ppm	ASTM D5185m		3	2		2
Manganese	ppm	ASTM D5185m		2	<1		1
Magnesium	ppm	ASTM D5185m		582	697		642
Calcium	ppm	ASTM D5185m		128	96		86
Phosphorus	ppm	ASTM D5185m		1116	1085		1002
Zinc	ppm	ASTM D5185m		1181	1279		1216
Sulfur	ppm	ASTM D5185m		6674	7627		6202
Acid Number (AN)	mg KOH/g	ASTM D8045		1.45	1.42		1.57
Visc @ 40°C	cSt	ASTM D445	37.7	37.8	37.5		37.9



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

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

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<sup>\* -</sup> Denotes test methods that are outside of the ISO 17025 scope of accreditation.