

OIL ANALYSIS REPORT

Area Mobile Fleet 3009 3009

Diesel Engine

Fluid MOBIL DELVAC 1300 SUPER 10W30 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WCMCF69204	WCMCF54103	
Sample Date		Client Info		12 Feb 2019	31 May 2018	
Machine Age	hrs	Client Info		2650	1188	
Oil Age	hrs	Client Info		1462	886	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	33	26	
Chromium	ppm	ASTM D5185m		1	1	
Nickel	ppm	ASTM D5185m	>2	- <1	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m		2	1	
Lead	ppm	ASTM D5185m	>40	5	6	
Copper	ppm	ASTM D5185m		24	119	
Tin	ppm	ASTM D5185m	>15	1	<1	
Antimony	ppm	ASTM D5185m		0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		18	87	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		40	8	
Manganese	ppm	ASTM D5185m		<1	2	
Magnesium	ppm	ASTM D5185m		470	69	
Calcium	ppm	ASTM D5185m		1834	3330	
Phosphorus	ppm	ASTM D5185m		679	927	
Zinc	ppm	ASTM D5185m		838	1060	
Sulfur	ppm	ASTM D5185m		2905	7717	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	24	
Sodium	ppm	ASTM D5185m		3	4	
Potassium	ppm	ASTM D5185m	>20	1	4	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	13.6	8.	

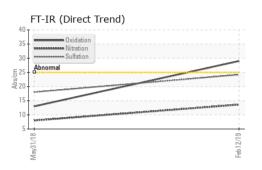


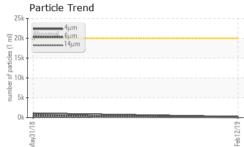


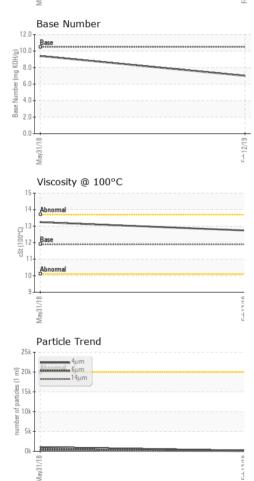
NORMAL



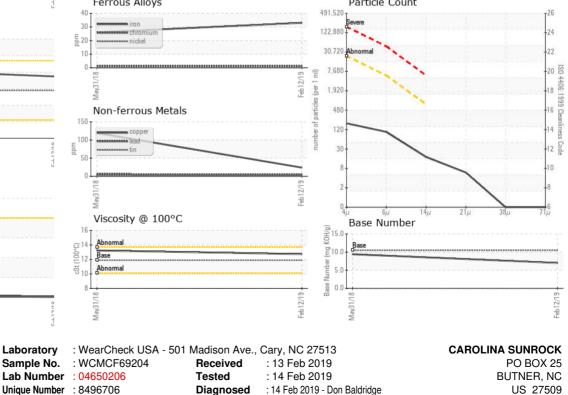
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FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>20000	166	1051			
Particles >6µm		ASTM D7647	>5000	90	572			
Particles >14µm		ASTM D7647	>640	15	97			
Particles >21µm		ASTM D7647	>160	5	32			
Particles >38µm		ASTM D7647	>40	0	5			
Particles >71µm		ASTM D7647	>10	0	0			
Oil Cleanliness		ISO 4406 (c)	>21/19/16	15/14/11	17/16/14			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	29	13.			
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	7	9.40			
VISUAL		method	limit/base	current	history1	history2		
White Metal	scalar	*Visual	NONE	NONE	NONE			
Yellow Metal	scalar	*Visual	NONE	NONE	NONE			
Precipitate	scalar	*Visual	NONE	NONE	NONE			
Silt	scalar	*Visual	NONE	NONE	NONE			
Debris	scalar	*Visual	NONE	NONE	NONE			
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE			
Appearance	scalar	*Visual	NORML	NORML	NORML			
Odor	scalar	*Visual	NORML	NORML	NORML			
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG			
Free Water	scalar	*Visual		NEG	NEG			
FLUID PROPERT	IES	method	limit/base	current	history1	history2		
Visc @ 100°C	cSt	ASTM D445	11.9	12.74	13.24			
GRAPHS								
Ferrous Alloys	Particle Count							
30 iron	Para Para Para Para Para Para Para Para							



Unique Number : 8496706 Test Package : MOB1+ (Additional Tests: PrtCount)

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.

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

Certificate 12367

Laboratory

Sample No.

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