

WEARNORMALCONTAMINATIONNORMALFLUID CONDITIONNORMAL

Machine Id **1426** Component **Diesel Engine** Fluid **MOBIL 1 5W30 (--- QTS)**

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the	Sample Number		Client Info		WC0827800	WC0827774	WC0827759
component make and model with your next sample.	Sample Date		Client Info		04 May 2024	01 Feb 2024	27 Sep 2023
component make and model with your next sample.	Machine Age	mls	Client Info		99357	93784	87313
	Oil Age	mls	Client Info		0	0	7780
	Filter Age	mls	Client Info		0	0	7780
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	20	29	32
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	1
	Nickel	ppm	ASTM D5185m		<1	1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	5	3
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m		22	26	31
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
						4.0	
CONTAMINATION	Silicon	ppm	ASTM D5185m		10	10	9
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	4	3
	Fuel Water		WC Method WC Method		<1.0 NEG	<1.0 NEG	<1.0
			WC Method	>0.2	NEG	NEG	NEG
	Glycol Soot %	%	*ASTM D7844	. 2	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7644	>3 >20	12.4	13.4	14.2
	Sulfation	Abs/.1mm	*ASTM D7624		24.5	26.1	26.7
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		7	5	5
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		29	24	33
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	0.0	72	84	96
	Manganese	ppm	ASTM D5185m		0	2	1
	Magnesium	ppm	ASTM D5185m		481	568	694
	Calcium	ppm	ASTM D5185m	820	1034	855	696
	Phosphorus	ppm	ASTM D5185m		624	650	614
	Zinc	ppm	ASTM D5185m		746	766	793
	Sulfur	ppm	ASTM D5185m		2440	2187	1857
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	21.6	25.9

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445 11.3

Visc @ 100°C cSt

3.7

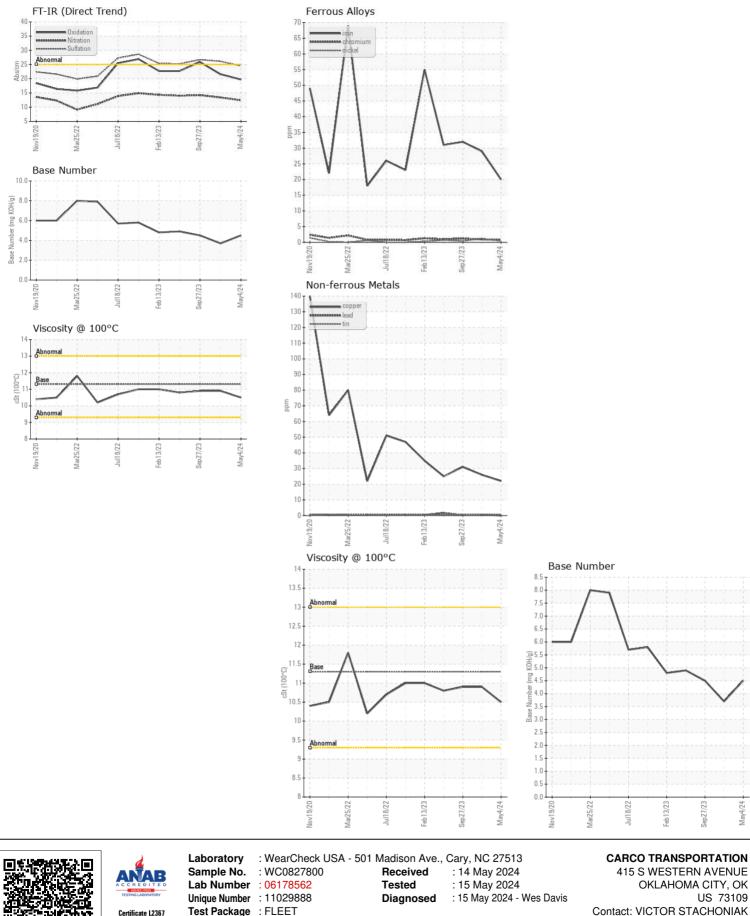
10.9

4.5

10.9

4.5

10.5



Test Package : FLEET 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.

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

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