

WEARNORMALCONTAMINATIONNORMALFLUID CONDITIONNORMAL

Machine Id **1424** Component **Diesel Engine** Fluid **MOBIL 1 5W30 (---- QTS)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0827822	WC0827681	WC0827708
	Sample Date		Client Info		24 Feb 2024	24 Nov 2023	19 Aug 2023
	Machine Age	mls	Client Info		124369	115213	109822
	Oil Age	mls	Client Info		0	0	5559
	Filter Age	mls	Client Info		0	0	5559
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	17	7	20
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	1	2
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	1
	Aluminum	ppm	ASTM D5185m		4	2	2
	Lead	ppm	ASTM D5185m		1	<1	2
	Copper	ppm	ASTM D5185m		11	10	12
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	. 05	01	▲ 39	
CONTAMINATION		ppm	ASTM D5185m		21 <1	▲ 39 <1	11 3
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	WC Method	>20 >5		<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<u>\</u> 2	0.1	0	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	12.7	9.4	11.1
	Sulfation	Abs/.1mm	*ASTM D7024		25.0	20.1	21.2
	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		4	2	6
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		25	58	32
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	0.0	66	67	89
	Manganese	ppm	ASTM D5185m	1055	<1	0	<1
	Magnesium	ppm	ASTM D5185m		498	552	612
	Calcium	ppm	ASTM D5185m		1064	1190	731
	Phosphorus	ppm	ASTM D5185m		646	730	604
	Zinc	ppm	ASTM D5185m		746	831	758
	Sulfur	ppm	ASTM D5185m		2534	2654	1850
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	14.0	19.5

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445 11.3

Visc @ 100°C cSt

4.6

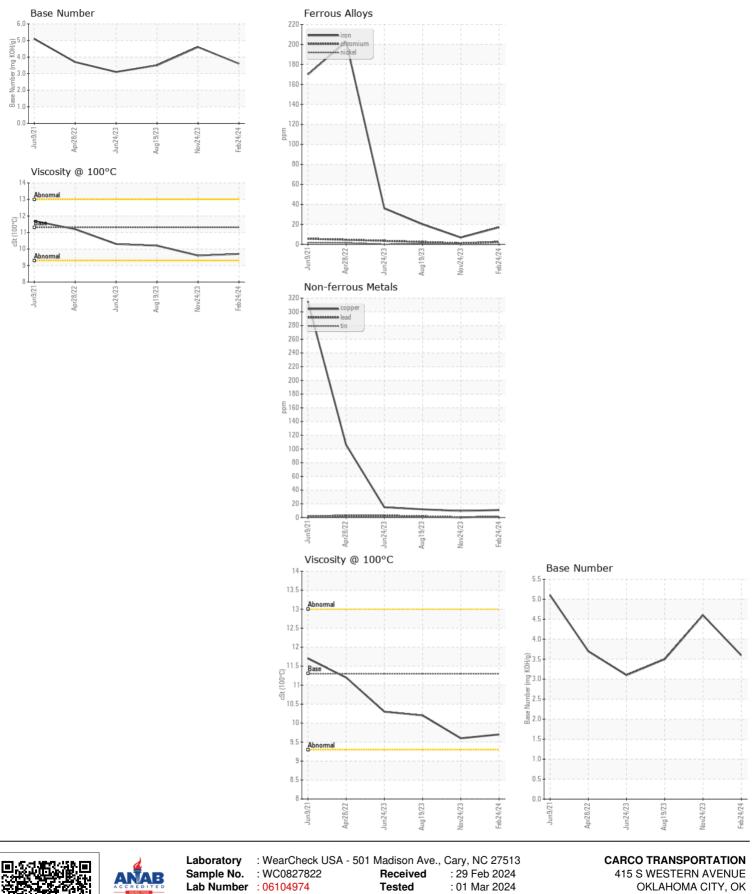
9.6

3.6

9.7

3.5

10.2



 Unique Number
 : 10903204
 Diagnosed
 : 01 Mar 2024 - Wes Davis

 Certificate 12367
 Test Package
 : FLEET
 Contact:

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 No
 No

 * - 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)

OKLAHOMA CITY, OK US 73109 Contact: VICTOR STACHONIAK victors@carcotrans.com T: (405)239-2555 106:2012) F: