

Machine Id INTERNATIONAL 12 Component

MOBIL MOBIL1 SAE 5W20 (42 QTS)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0802025	WC0555270	WC0392081
	Sample Date		Client Info		25 May 2024	13 Apr 2021	26 Nov 2019
	Machine Age	mls	Client Info		121444	53583	167287
	Oil Age	mls	Client Info		0	53583	0
	Filter Age	mls	Client Info		0	53583	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	SEVERE
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>127	41	7	3 07
	Chromium	ppm	ASTM D5185m	>3	2	<1	▲ 25
	Nickel	ppm	ASTM D5185m	>30	<1	0	2
	Titanium	ppm	ASTM D5185m	>2	<1	0	2
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>59	2	0	22
	Lead	ppm	ASTM D5185m	>29	5	0	10
	Copper	ppm	ASTM D5185m	>135	1	3	9
	Tin	ppm	ASTM D5185m	>2	<1	0	2
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>18	6	10	1 05
CONTAININATION	Potassium	ppm	ASTM D5185m		2	<1	18
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		- <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.1	1.3
	Nitration	Abs/cm	*ASTM D7624	>20	12.9	5.9	8.8
	Sulfation	Abs/.1mm	*ASTM D7415		31.0	19.8	24.8
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	4	6
	Boron	ppm	ASTM D5185m		0	62	310
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		68	128	140
	Manganese	ppm	ASTM D5185m		<1	<1	4
	Magnesium	ppm	ASTM D5185m		507	395	652
	Calcium	ppm	ASTM D5185m		1840	1256	1613
	Phosphorus	ppm	ASTM D5185m		1192	667	795
	Zinc	ppm	ASTM D5185m		1415	758	898
	Sulfur	ppm	ASTM D5185m		3529	2460	656
	Oxidation	Abs/.1mm	*ASTM D7414	>25	32.4	15.4	17.2
	Base Number (BN)		ASTM D2896	0	3.4	9.4	10.9
		- Ot		0.0		0.0	14.0

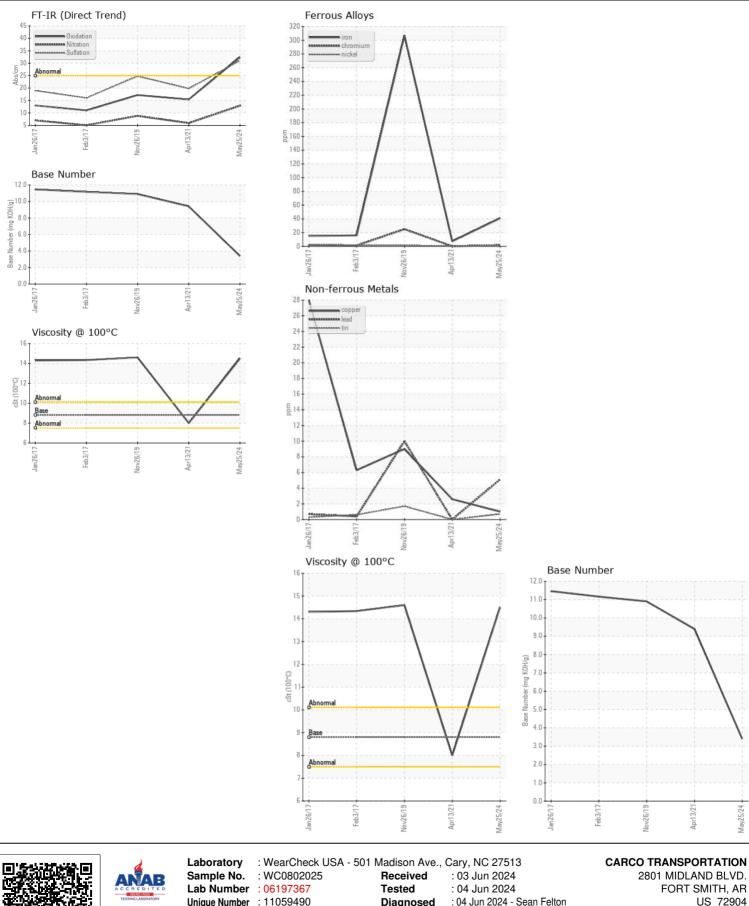
Visc @ 100°C cSt

ASTM D445 8.8

8.0

14.6

14.5



 Unique Number
 : 11059490
 Diagnosed
 : 04 Jun 2024 - Sean Felton

 Certificate 12367
 Test Package
 : FLEET

 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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