

Machine Id **INTERNATIONAL 1811** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 10W30 (--- QTS)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the	Sample Number		Client Info		WC0886836	WC0852726	WC0762891
brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		14 Mar 2024	08 Nov 2023	23 Jan 2023
State, type, and theorem, of the on on your next cample.	Machine Age	mls	Client Info		358897	709	273012
	Oil Age	mls	Client Info		19390	709	22021
	Filter Age	mls	Client Info		19390	709	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron		ASTM D5185m	. 00	06	15	37
WEAN	Chromium	ppm	ASTM D5185m		26 <1	1	4
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m			<1 <1	<1 0
	Silver	ppm			0		
		ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m		<1	2	3
	Lead	ppm	ASTM D5185m		<1	2	4
	Copper	ppm	ASTM D5185m		0	<1	4
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m	NONE	0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	4	11
	Potassium	ppm	ASTM D5185m	>20	0	2	6
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.3	0.1	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.0	7.0	8.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	18.6	20.2
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	0	1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		3	10	66
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	59	61	75
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		1003	898	468
	Calcium	ppm	ASTM D5185m		1087	1045	1864
	Phosphorus	ppm	ASTM D5185m		1062	991	1049
	Zinc	ppm	ASTM D5185m		1243	1187	1336
	Sulfur	ppm	ASTM D5185m	4250	3610	3095	3846

Oxidation

Visc @ 100°C cSt

14.3

8.9

10.9

16.3

7.8

10.8

Abs/.1mm *ASTM D7414 >25

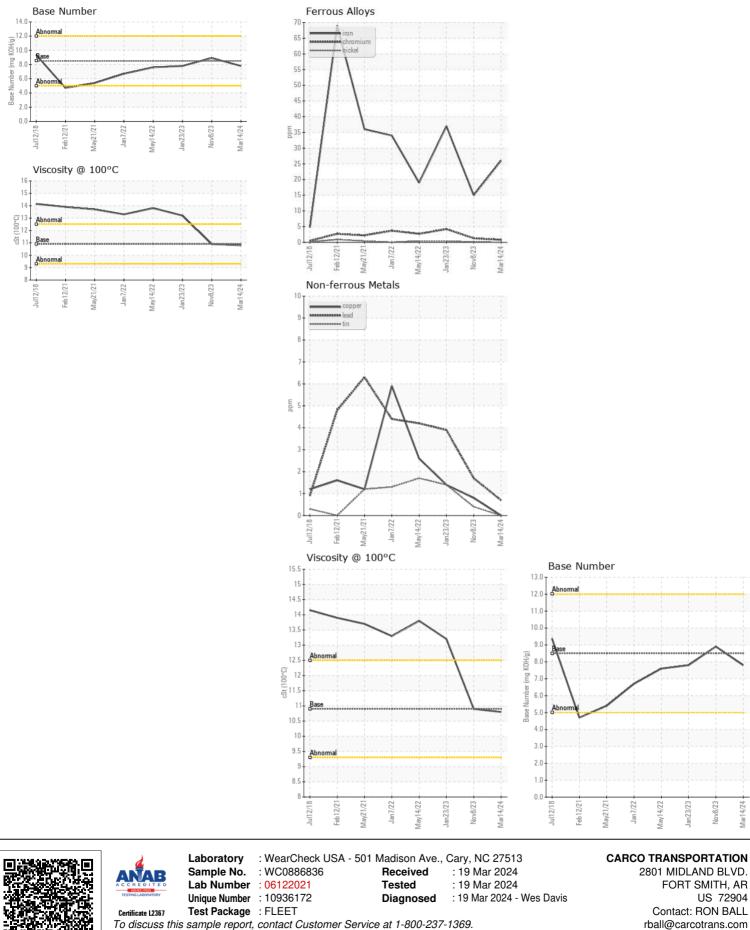
ASTM D445 10.9

Base Number (BN) mg KOH/g ASTM D2896 8.5

16.4

7.8

13.2



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)

Contact/Location: RON BALL - CARFORAR

F:

T: (479)441-3228

^{* -} Denotes test methods that are outside of the ISO 17025 scope of accreditation.