

## Machine Id WIRTGEN W210FI 23200388 Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		JR0179242	JR0165027	JR0150186
	Sample Date		Client Info		15 Apr 2024	27 Mar 2023	25 Oct 2022
	Machine Age	hrs	Client Info		938	437	46
	Oil Age	hrs	Client Info		0	0	46
	Filter Age	hrs	Client Info		0	0	46
	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	6	20	5
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	2	<1
	Lead	ppm	ASTM D5185m	>40	0	1	2
	Copper	ppm	ASTM D5185m	>330	3	8	14
	Tin	ppm	ASTM D5185m	>15	0	1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	14	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	1	2
	Fuel	le le	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.2	7.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	21.2	19.0
	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	>158	3	2	0
	Boron	ppm	ASTM D5185m		138	152	44
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		191	196	39
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m	450	703	742	72
	Calcium	ppm	ASTM D5185m		1431	1823	932
	Phosphorus	ppm	ASTM D5185m		872	1047	439
	Zinc	ppm	ASTM D5185m	1350	975	1271	520
	Sulfur	ppm	ASTM D5185m	4250	3174	4201	2150
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Oxidation

Visc @ 100°C cSt

Abs/.1mm \*ASTM D7414 >25

ASTM D445 14.4

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

16.7

7.0

13.5

14.7

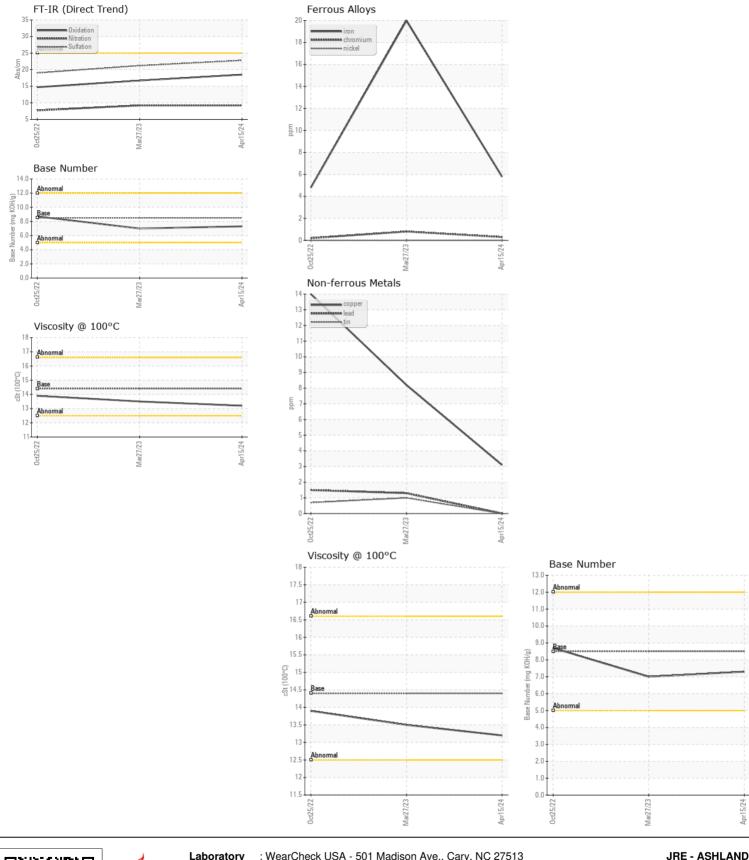
8.7

13.9

18.5

7.3

13.2



JRE - ASHLAND Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0179242 Received 11047 LEADBETTER RD : 23 Apr 2024 Lab Number : 06157402 Tested : 24 Apr 2024 ASHLAND, VA Unique Number : 10992825 Diagnosed : 24 Apr 2024 - Wes Davis US 23005 Test Package : CONST (Additional Tests: TBN) Contact: DAVID ZIEG Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)798-6001 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)798-0292