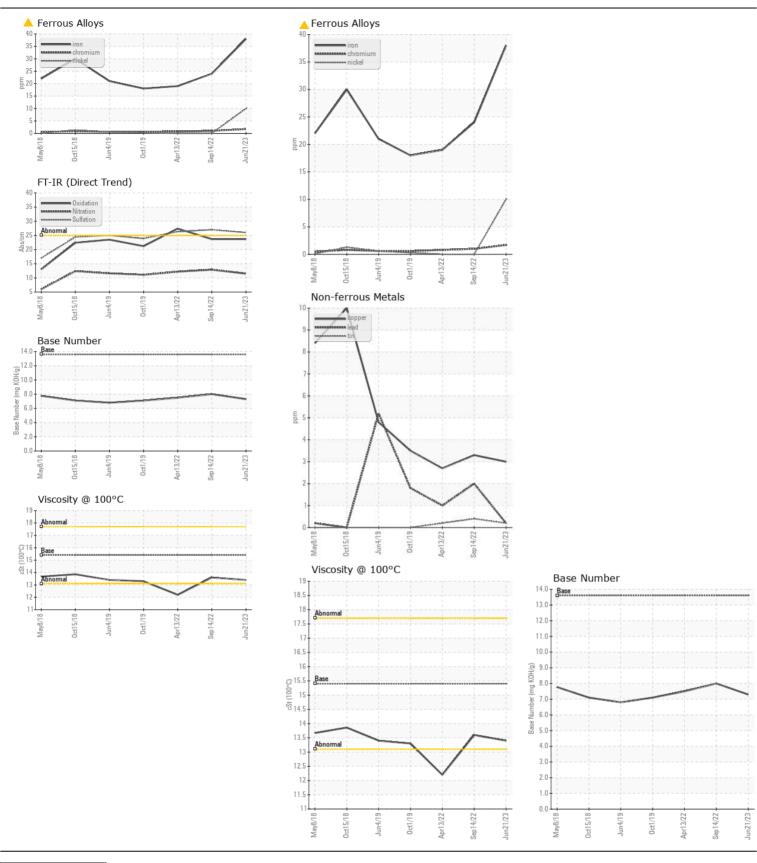
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL NORMAL NORMAL**

[W44834]

WIRTGEN W2101 1520-1187

Rear Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0164910	JR0125740	JR010590
	Sample Date		Client Info		21 Jun 2023	14 Sep 2022	13 Apr 202
	Machine Age	hrs	Client Info		6733	5919	5300
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	ATTENTIO
VEAR	Iron	ppm	ASTM D5185m	>100	38	24	19
WEAT	Chromium	ppm	ASTM D5185m		2	1	<1
The nickel level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		<u>^</u> 10	0	0
	Titanium	ppm	ASTM D5185m	77	<1	<1	<1
	Silver	ppm	ASTM D5185m	~3	0	<1	0
	Aluminum	ppm	ASTM D5185m		2	6	4
	Lead	ppm	ASTM D5185m	>40	<1	2	1
	Copper	ppm	ASTM D5185m		3	3	3
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m	7.0	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		12	11	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		10	13	5
	Fuel		WC Method		<1.0	<1.0	<u>^</u> 2.6
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method	-	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.2	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	11.5	12.9	12.2
	Sulfation	Abs/.1mm	*ASTM D7415		26.0	27.0	26.3
	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	NORM
	Odor Emulsified Water	scalar	*Visual	NORML >0.2	NORML NEG	NORML NEG	NORM NEG
<u></u>		scalar	VISUAI	>0.2			NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		23	2	2
The PN regult indicates that there is quitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		93	59	4
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		228	211	57
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		822	806	952
	Calcium	ppm	ASTM D5185m		1438	1399	1376
	Phosphorus	ppm	ASTM D5185m		781	850	1116
	Zinc	ppm	ASTM D5185m		979	1090	1266
	Sulfur	ppm	ASTM D5185m		3302	3146	3064
	Oxidation	Abs/.1mm	*ASTM D7414		23.7	23.7	27.4
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.3	8.0	7.5
			ASTM D445		13.4	13.6	12.2







Certificate L2367

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 05881782

: JR0164910

Tested Unique Number : 10532265 Diagnosed Test Package : CONST (Additional Tests: TBN)

Received

: 23 Jun 2023 : 27 Jun 2023 - Angela Borella

: 23 Jun 2023

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005

Contact: DAVID ZIEG dzieg@jamesriverequipment.com

Contact/Location: DAVID ZIEG - JAMASH

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.

F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: (804)798-6001