WEAR CONTAMINATION **FLUID CONDITION**

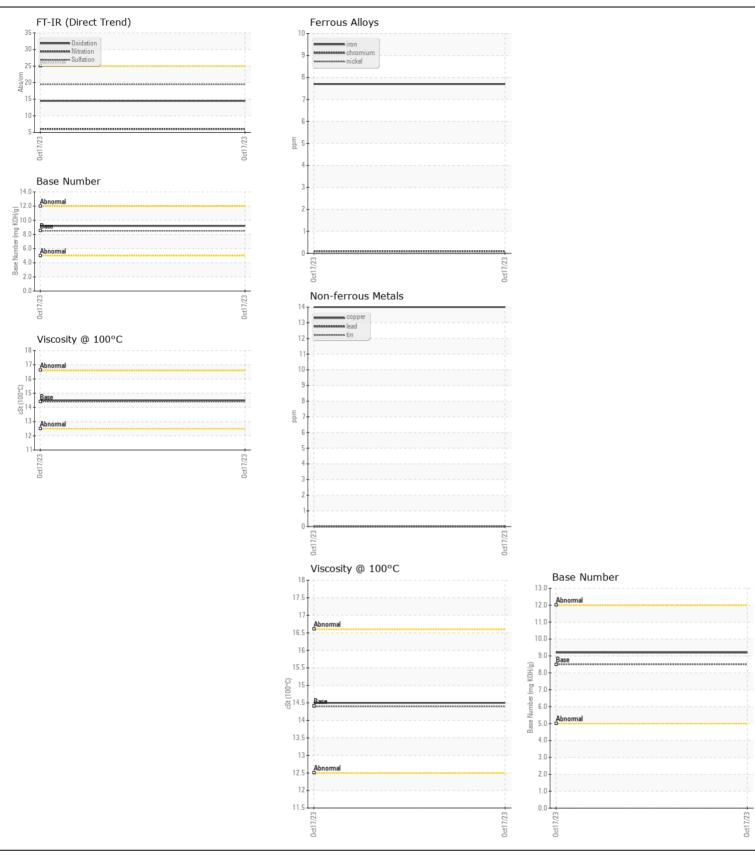
NORMAL NORMAL NORMAL

Machine Id

BERGMAN C912S 22399564

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0179456		
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		17 Oct 2023		
	Machine Age	hrs	Client Info		573		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	8		
	Chromium	ppm	ASTM D5185m	>20	<1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		14		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9		
	Potassium	ppm	ASTM D5185m		0		
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method	>5	<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	<i>></i> 0.∠	NEG		
	Soot %	%	*ASTM D7844	~3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	6.0		
	Sulfation	Abs/.1mm	*ASTM D7415		19.5		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	<1		
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	258		
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		2		
	Molybdenum	ppm	ASTM D5185m	100	231		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	450	770		
	Calcium	ppm	ASTM D5185m		1329		
	Phosphorus	ppm	ASTM D5185m	1150	868		
	Zinc	ppm	ASTM D5185m		1047		
	Sulfur	ppm	ASTM D5185m	4250	3095		
	Oxidation	Abs/.1mm	*ASTM D7414		14.5		
	Base Number (BN)				9.2		
	Visc @ 100°C	cSt	ASTM D445	14.4	14.5		







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 05982253

: JR0179456 Unique Number : 10699548

Received **Tested**

Diagnosed

: 18 Oct 2023 : 18 Oct 2023 - Wes Davis

: 18 Oct 2023

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA 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 Contact/Location: DAVID ZIEG - JAMASH