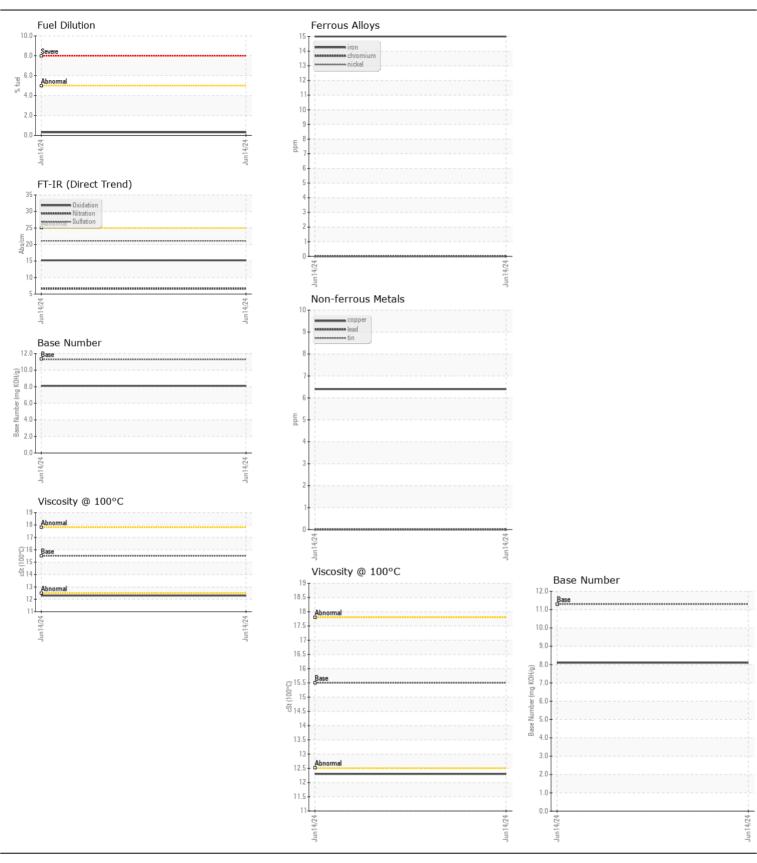
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**



Machine Id **CATERPILLAR 930K C335137 (S/N 0RHN02111)**

Diesel Engine

RECOMMENDATION							
ALCOMMULITOR AND	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0218729		
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		14 Jun 2024		
	Machine Age	hrs	Client Info		8654		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	15		
	Chromium	ppm	ASTM D5185m		0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm		>2	0		
	Aluminum	ppm	ASTM D5185m		6		
	Lead		ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		6		
	Tin		ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m	>10	0		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal						
<u></u>	reliow Metai	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
	Fuel	%	ASTM D3524	>5	0.3		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	6.6		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1		
	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	scalar	*Visual	>0.2	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		5		
	Boron	ppm	ASTM D5185m		349		
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		
	Molybdenum	ppm	ASTM D5185m		95		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		463		
	Calcium	ppm	ASTM D5185m		1628		
			ASTM D5185m		1002		
		nnm			1002		
	Phosphorus	ppm		1460	1221		
	Phosphorus Zinc	ppm	ASTM D5185m	1460	1221 3792		
	Phosphorus Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		3792		
	Phosphorus Zinc Sulfur Oxidation	ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7414	>25	3792 15.2		
	Phosphorus Zinc Sulfur Oxidation	ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m	>25	3792		







Laboratory Sample No.

: JR0218729 Lab Number : 06218035 Unique Number : 11096232

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

Received **Tested**

: 24 Jun 2024 Diagnosed

: 26 Jun 2024 : 26 Jun 2024 - Wes Davis

JRE - ASHEVILLE 101 BRUCE DRIVE ASHEVILLE, NC US 28806

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Certificate L2367 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.

Contact: Randy Warren randy.warren@jamesriverequipment.com T: (528)667-0176

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (828)667-4865