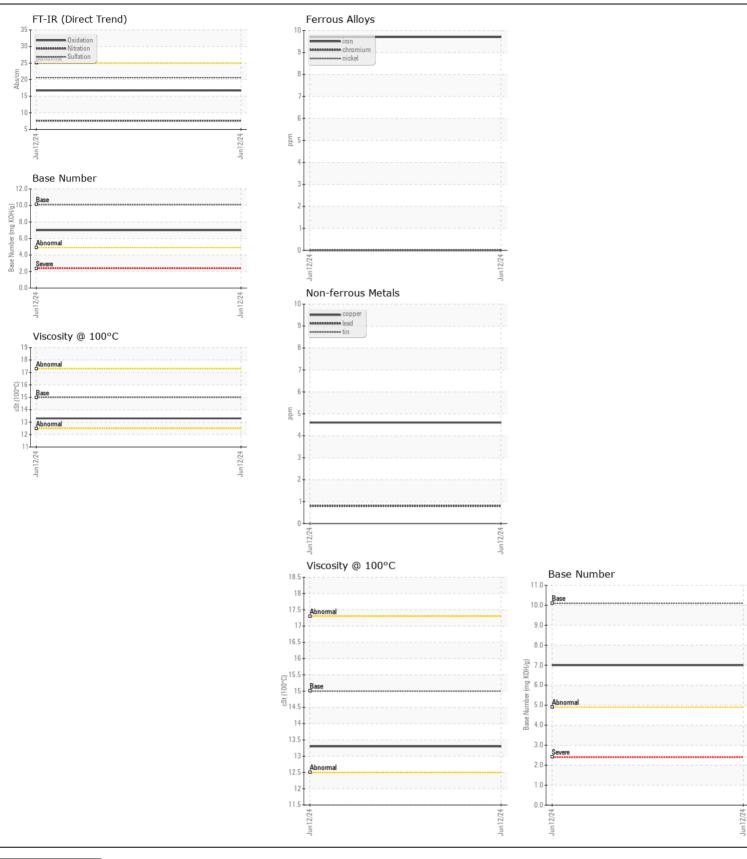
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id

1T0310SLJMF397133

Component Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0169250		
	Sample Date		Client Info		12 Jun 2024		
	Machine Age	hrs	Client Info		1050		
	Oil Age	hrs	Client Info		315		
	Filter Age	hrs	Client Info		315		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
/EAR	Iron	ppm	ASTM D5185m	>51	10		
LAIT	Chromium	ppm	ASTM D5185m		0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	/5	<1		
	Silver		ASTM D5185m	~3	0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		5		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m	7 7	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m		3		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		7		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.6		
	Sulfation	Abs/.1mm	*ASTM D7415		20.6		
	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	>0.21	NEG		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>31	2		
	Boron	ppm	ASTM D5185m		177		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		30		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		107		
	Calcium	ppm	ASTM D5185m		2123		
	Phosphorus	ppm	ASTM D5185m		951		
	Zinc	ppm	ASTM D5185m		1281		
	Sulfur	ppm	ASTM D5185m		3996		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7		
	Base Number (BN)	mg KOH/g	ASTM D2896		7.0		
	Visc @ 100°C	cSt	ASTM D445		13.3		





Certificate L2367

Laboratory Sample No. Unique Number : 11083901

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0169250 Lab Number : 06211037

Received : 14 Jun 2024 **Tested** Diagnosed

: 19 Jun 2024 : 19 Jun 2024 - Wes Davis

BERKELEY COUNTY PUBLIC SERVICE WATER DISTRICT 251 CAPERTON BLVD MARTINSBURG, WV

US 25403 Contact: TRAVIS COATES

tcoates@berkeleywater.org T: (304)267-4600

Test Package : CONST (Additional Tests: TBN) 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.

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