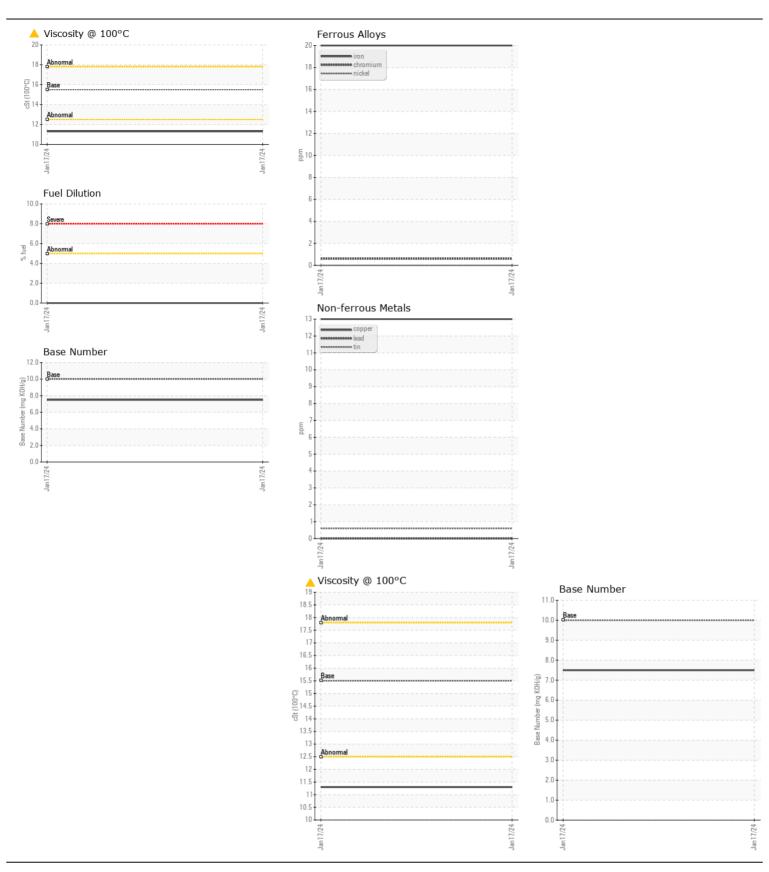
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ABNORMAL

Machine Id **63011**

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0813313		
	Sample Date		Client Info		17 Jan 2024		
	Machine Age	hrs	Client Info		300		
	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				ABNORMAL		
NEAD			AOTM DEADE	400			
WEAR	Iron	ppm	ASTM D5185m		20		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		13		
	Tin	ppm	ASTM D5185m	>10	<1		
	Vanadium White Metal	ppm	*Visual	NONE	<1 NONE		
		scalar		NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		17		
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1		
	Fuel	%	ASTM D3524		0.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	9.8		
	Sulfation	Abs/.1mm	*ASTM D7415		19.8		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6		
LOID CONDITION	Boron	ppm	ASTM D5185m		34		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		3		
	Molybdenum	ppm	ASTM D5185m		47		
	Manganese	ppm	ASTM D5185m		6		
	Magnesium	ppm	ASTM D5185m		837		
	Calcium	ppm	ASTM D5185m		1152		
	Phosphorus	ppm	ASTM D5185m		763		
	Zinc	ppm	ASTM D5185m		912		
	Sulfur	ppm	ASTM D5185m		2349		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7		
	Base Number (BN)		ASTM D2896		7.5		
	Visc @ 100°C	cSt	ASTM D445		▲ 11.3		







Laboratory Sample No. Lab Number **Unique Number**

: 06064755 : 10836137

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0813313 Recieved : 18 Jan 2024 Diagnosed : 24 Jan 2024 Diagnostician : Angela Borella

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel) 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) **CITY OF BERKELEY**

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