WEAR CONTAMINATION FLUID CONDITION

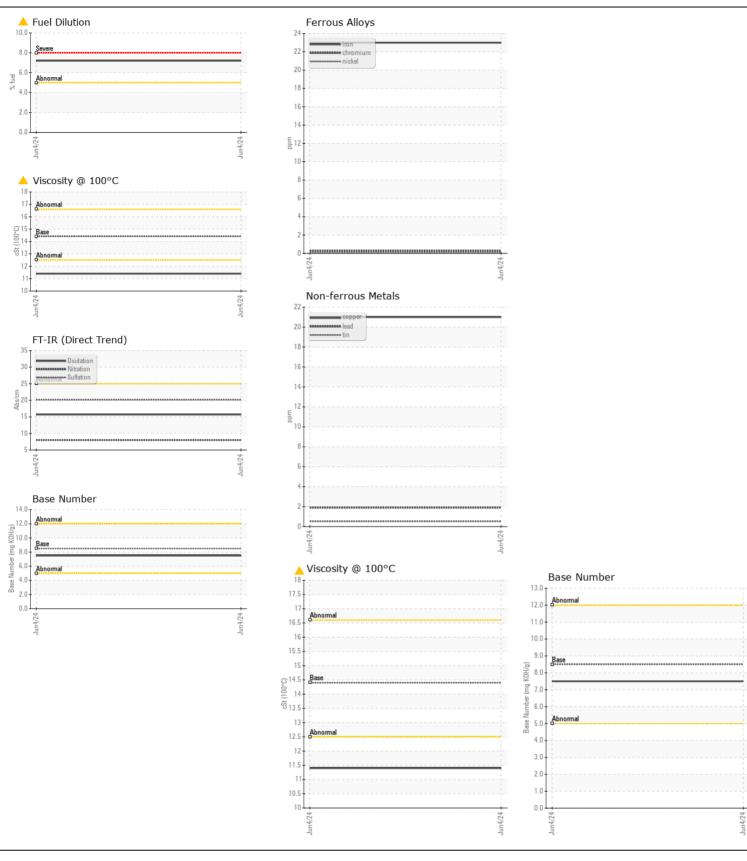
NORMAL ABNORMAL ABNORMAL

Machine Id

4-106

Component Front Diesel Engine

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RECOMMENDATION	Test Sample Number	UOM	Method Client Info	Limit/Abn	Current WC0895221	History1	History2
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		04 Jun 2024		
	Machine Age	hrs	Client Info		518		
	Oil Age	hrs	Client Info		518		
	Filter Age	hrs	Client Info		518		
	Oil Changed	1115	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Client inio		ABNORMAL		
	·····				ADITOTIMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	23		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>20	5		
	Lead	ppm	ASTM D5185m	>40	2		
	Copper	ppm	ASTM D5185m	>330	21		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		45		
There is a moderate amount of fuel present in the oil.	Potassium	ppm	ASTM D5185m		4		
	Fuel	%	ASTM D3524	>5	▲ 7.2		
	Water		WC Method	>0.2	NEG		
	Glycol	0/	WC Method	0	NEG		
	Soot %	%	*ASTM D7844		0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	8.0		
	Sulfation	Abs/.1mm	*ASTM D7415		20.1		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor Emulsified Water	scalar	*Visual *Visual	NORML	NORML		
	Emuisined water	scalar	visuai	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	12		
	Boron	ppm	ASTM D5185m		271		
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		3		
	Molybdenum	ppm	ASTM D5185m		102		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m	450	366		
	Calcium	ppm	ASTM D5185m	3000	1770		
	Phosphorus	ppm	ASTM D5185m		1010		
	Zinc	ppm	ASTM D5185m		1214		
	Sulfur	ppm	ASTM D5185m	4250	4042		
	Oxidation	Abs/.1mm	*ASTM D7414		15.7		
	Base Number (BN)				7.5		
	Visc @ 100°C	cSt	ASTM D445		<u></u> 11.4		







Laboratory Sample No.

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

: WC0895221 Lab Number : 06212790 Unique Number : 11085654

Received **Tested**

: 20 Jun 2024 Diagnosed : 20 Jun 2024 - Sean Felton Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 17 Jun 2024

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

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