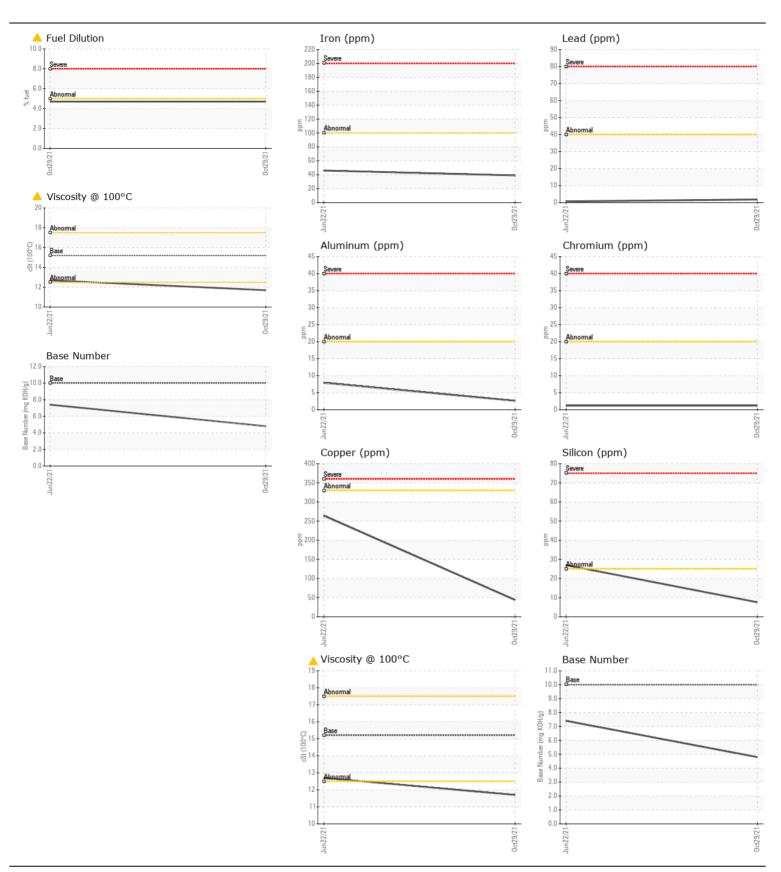
**WEAR** CONTAMINATION **FLUID CONDITION** 

NORMAL **ABNORMAL ABNORMAL** 

## RO-11 (S/N 462237)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UOIVI	Client Info	LIIIII/ADII	WC0638713	WC0572534	
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 Date		Client Info		29 Oct 2021	22 Jun 2021	
	Machine Age	hrs	Client Info		1224	563	
	Oil Age	hrs	Client Info		661	563	
	Filter Age	hrs	Client Info		661	563	
	Oil Changed	1110	Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	>100	39	46	
All companent wear rates are permel	Chromium	ppm	ASTM D5185m	>20	1	1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		<1	<1	
	Aluminum	ppm	ASTM D5185m		3	8	
	Lead	ppm	ASTM D5185m		2	<1	
	Copper	ppm	ASTM D5185m		44	264	
	Tin	ppm	ASTM D5185m	>15	1	1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	<b>&gt;25</b>	8	27	
ONTAMINATION	Potassium		ASTM D5185m		4	30	
There is a moderate amount of fuel present in the oil.	Fuel	ppm %	ASTM D3163111		<u>4</u> ▲ 4.7	<1.0	
	Water	/0	WC Method		NEG	NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	<b>~</b> 3	0.6	0.6	
	Nitration	Abs/cm	*ASTM D7624	>20	10.7	10.9	
	Sulfation	Abs/.1mm	*ASTM D7024		23.5	26.5	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		2	5	
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Boron	ppm	ASTM D5185m	2.9	23	211	
	Barium	ppm	ASTM D5185m		0	5	
	Molybdenum	ppm	ASTM D5185m	0.0	41	100	
	Manganese	ppm	ASTM D5185m		2	8	
	Magnesium	ppm	ASTM D5185m	18	405	653	
	Calcium	ppm	ASTM D5185m	2936	1529	1355	
	Phosphorus	ppm	ASTM D5185m	998	668	662	
	Zinc	ppm	ASTM D5185m	1095	801	797	
	Sulfur	ppm	ASTM D5185m	5469	2292	1877	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	22	24.3	
	Base Number (BN)	mg KOH/g	ASTM D2896	10.0	4.8	7.4	
	Visc @ 100°C	cSt	ASTM D445	15.2	<b>11.7</b>	12.7	





Certificate L2367

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

: WC0638713 : 05394174 : 9733324

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 08 Nov 2021 Diagnosed : 10 Nov 2021

Diagnostician : Jonathan Hester

Test Package : MOBCE ( Additional Tests: FuelDilution, PercentFuel, 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)

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