WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

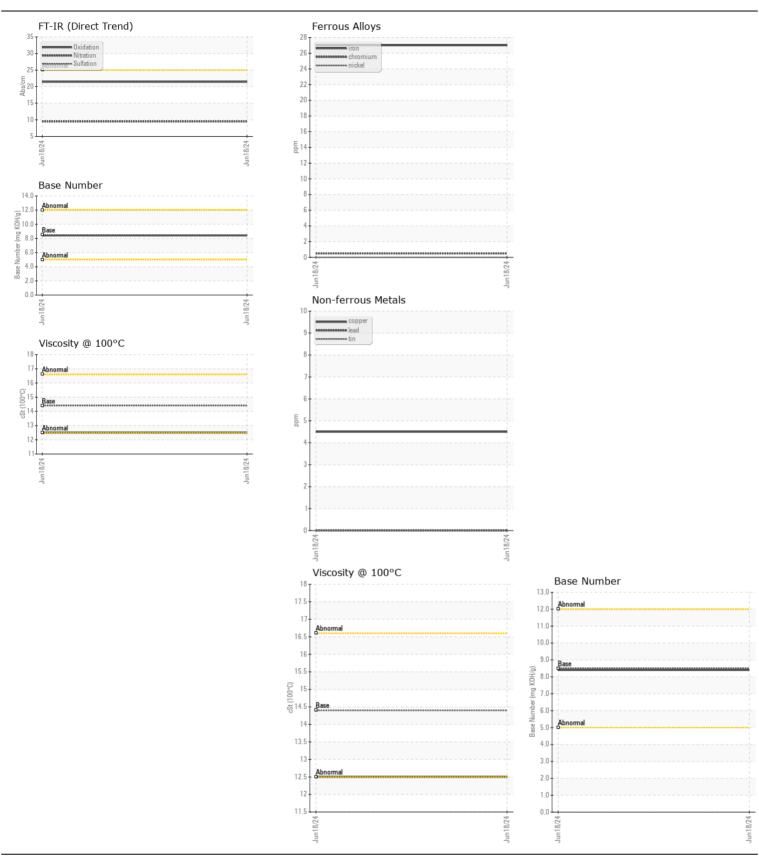
## [ARCHER WESTERN CONST]

176X5826 (S/N 1F13D1417F1005515)

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- QTS)

DILOCE ENGINE OIL OAL 13W40 (*** &10)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		JR0218633		
	Sample Date		Client Info		18 Jun 2024		
	Machine Age	hrs	Client Info		5526		
	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		
WEAD			AOTM DEGOE	400			
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		27		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m	0	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		0		
	Copper Tin	ppm	ASTM D5185m		4		
	Vanadium	ppm	ASTM D5185m	>15	0 <1		
	White Metal	ppm	*Visual	NONE			
		scalar	*Visual	NONE	NONE NONE		
	Yellow Metal	scalar	visuai	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	13		
	Potassium	ppm	ASTM D5185m	>20	0		
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	9.5		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3		
	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		
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Codium		ASTM D5185m	. 150	2		
LOID CONDITION	Sodium Boron	ppm	ASTM D5185m		58		
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	-	47		
	Manganese	ppm	ASTM D5185m	100	<1		
	Magnesium	ppm	ASTM D5185m	450	512		
	Calcium	ppm	ASTM D5185m		2152		
	Phosphorus	ppm	ASTM D5185m		864		
	Zinc	ppm	ASTM D5185m		1139		
	Sulfur	ppm	ASTM D5185m		4095		
		Abs/.1mm	*ASTM D7414		21.5		
	Oxidation	∩u3/.1111111					
	Base Number (BN)		ASTM D2896		8.4		







Certificate L2367

Laboratory Sample No.

: JR0218633 Lab Number : 06217982

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

Unique Number : 11096179 Diagnosed Test Package : CONST (Additional Tests: TBN)

: 25 Jun 2024 : 25 Jun 2024 - Wes Davis

: 24 Jun 2024

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: DON VEST dvest@jamesriverequipment.com T: (703)631-8500

JRE - MANASSAS PARK

9107 OWENS DRIVE

MANASSAS PARK, VA

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

F: (703)631-4715 Contact/Location: DON VEST - JAMMAN

US 20111