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

**NORMAL ABNORMAL NORMAL** 

**OIL ANALYSIS REPORT** 

Machine Id

## **DAVEY DRILL 219R**

Hydraulic System

TRC HYDRAULIC OIL ISO 32- SAE10W (130 G	iAL)						
RECOMMENDATION  The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR03277529		
	Sample Date		Client Info		25 Apr 2013		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		6		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		1		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	LIGHT		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION  High concentration of visible dirt/debris present in the oil.	Silicon	ppm	ASTM D5185m		3		
	Potassium	ppm	ASTM D5185m		0		
	Water		WC Method		NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	▲ HEAVY		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual		NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		1		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		0		
	Calcium	ppm	ASTM D5185m		112		
	Phosphorus	ppm	ASTM D5185m		377		
	Zinc	ppm	ASTM D5185m		448		
	Sulfur	ppm	ASTM D5185m		2555		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.681		

Visc @ 100°C cSt

Fluid Type

ASTM D445

ISO HYD AW LO







Laboratory Sample No.

Lab Number : 03277529 Unique Number : 6250187

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : TR03277529 : 02 May 2013 **Tested** : 10 May 2013

Diagnosed : 10 May 2013 - Doug Bogart Test Package : MOB 2 ( Additional Tests: Bottom, FluidDetermination, KV100 )

To discuss this sample report, contact Customer Service at 1-800-827-0711.

\* - 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)

**BUFFALO DRILLING** 

12264 MAIN RD. AKRON, NY US 14001

Contact: MIKE GERSTUNG mikegerstung@yahoo.com

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F: