

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

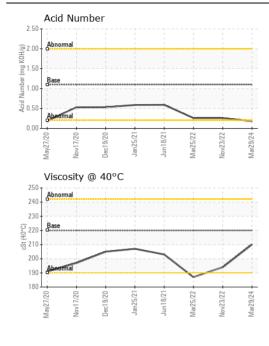
**NORMAL ABNORMAL NORMAL** 

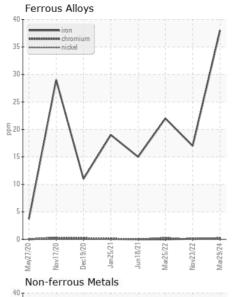
RIG 8

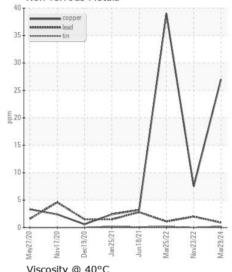
## **DRILLING RIG R8-P-03-G**

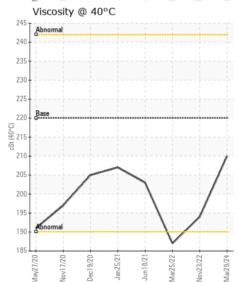
Gearbox

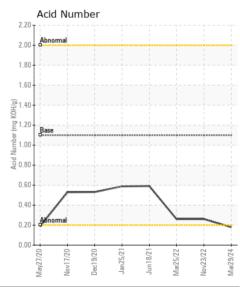
DECOMMENDATION	T	11084	N / - + la l	Line St. / Alle	(	I Bakan d	Libertonio
RECOMMENDATION  We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		KL0013927	KL0009758 23 Nov 2022	KL0007773 25 Mar 2022
	Sample Date Machine Age	dayo	Client Info		29 Mar 2024 45371	44881	44642
	Oil Age	days	Client Info		0	0	0
	Filter Age	days days	Client Info		0	0	0
	Oil Changed	uays	Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A N/A	N/A	N/A
	Sample Status		Ollerit IIIIO		ABNORMAL	SEVERE	ABNORMAI
NEAD.							
WEAR	Iron	ppm	ASTM D5185m		38	17	22
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	0
	Nickel	ppm	ASTM D5185m	>10	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m ASTM D5185m	- 2F	0	0	0
	Aluminum	ppm			3	3	
	Lead	ppm	ASTM D5185m		<1	2 8	1
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		27 <1	0	39
	Vanadium	ppm	ASTM D5185m	>10	0	0	<1
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	VLITE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		18	11	36
Moderate concentration of visible dirt/debris present in the oil.	Potassium	ppm	ASTM D5185m		5	2	2
	Water		WC Method	>0.2	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	5000		173865	288078
	Particles >6µm		ASTM D7647			<b>▲</b> 47938	73539
	Particles >14µm		ASTM D7647			264	181
	Particles >21µm		ASTM D7647			16	11
	Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647			0	0
	Oil Cleanliness		ISO 4406 (c)			△ 23/15	23/15
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	▲ MODER	NONE	VLITE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water			>0.2	NEG	NEG	NEG
THE CONDITION	0 "		AOTA DE LOS			05	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	05	54	35	23
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Boron Barium	ppm	ASTM D5185m		0	3	5
		ppm		12	1	3	0 <1
	Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m	5	1	5 -1	
	Magnesium	ppm	ASTM D5185m	25	0 10	<1 13	<1 5
	Calcium	ppm		25	36	35	31
	Phosphorus	ppm	ASTM D5185m		136	150	138
	Zinc	ppm	ASTM D5185m	25	37	28	27
	Sulfur	ppm	ASTM D5185m		5688	28 5718	5138
	Acid Number (AN)	mg KOH/g	ASTM D3163111		0.18	0.26	0.26













Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KL0013927 **Lab Number** : 06145276

Unique Number : 10970084

Received : 10 Apr 2024 **Tested** 

Diagnosed Test Package : MOB 2 ( Additional Tests: PrtCount )

: 13 Apr 2024 : 13 Apr 2024 - Don Baldridge

**MCVAY DRILLING** 401 E BENDER BLVD HOBBS, NM US 88241

Contact: DOMINIK MENDOZA dominik4819@yahoo.com T: (575)393-8969

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) F: (575)393-7455