

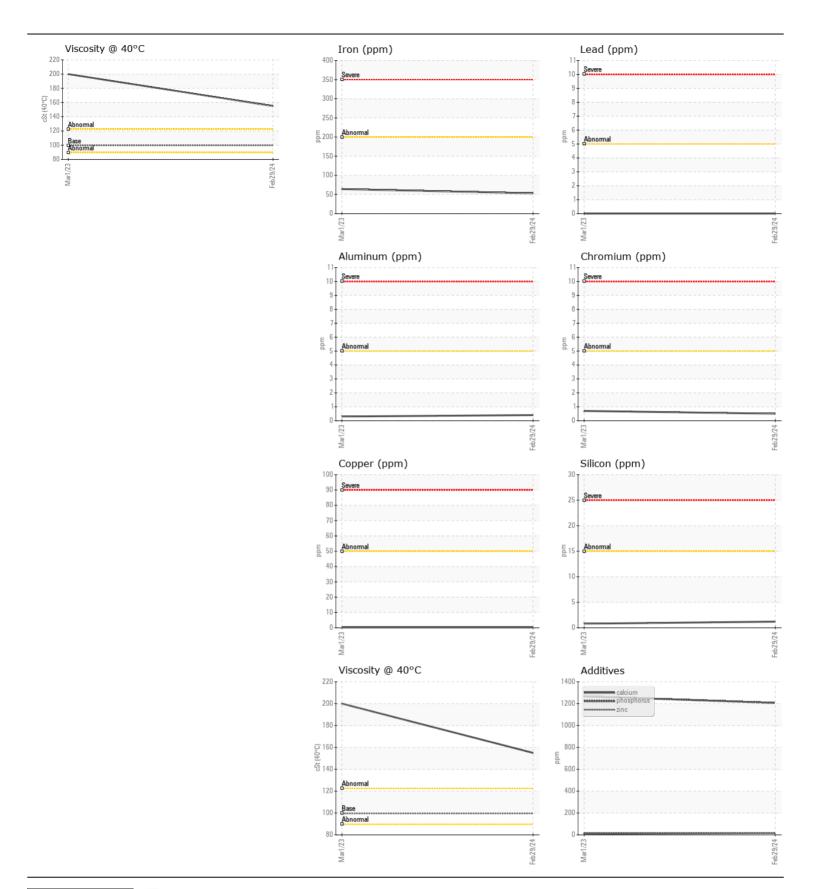
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**



LIEBHERR LB35 115696

Drilling Drive

PETRO CANADA TRAXON 75W90 SYNTHETIC (130 LTR)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0274865	LH0251773	
	Sample Date		Client Info		29 Feb 2024	01 Mar 2023	
	Machine Age	hrs	Client Info		2999	2015	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185(m)	>200	53	64	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>5	<1	<1	
	Nickel	ppm	ASTM D5185(m)		<1	<1	
	Titanium	ppm	ASTM D5185(m)		0	<1	
	Silver	ppm	ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)	>5	<1	<1	
	Lead	ppm	ASTM D5185(m)	>5	0	0	
	Copper	ppm	ASTM D5185(m)	>50	<1	<1	
	Tin	ppm	ASTM D5185(m)	>5	0	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	VLITE	VLITE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>15	1	<1	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	1	<1	
	Water		WC Method	>0.2	NEG	NEG	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE	VLITE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
	Appearance	scalar	Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		4	4	
Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	328	100	1	
	Barium	ppm	ASTM D5185(m)	1	0	0	
	Molybdenum	ppm	ASTM D5185(m)		0	0	
	Manganese	ppm	ASTM D5185(m)		0	<1	
	Magnesium	ppm	ASTM D5185(m)	1	1	<1	
	Calcium	ppm	ASTM D5185(m)	7	7	13	
	Phosphorus	ppm	ASTM D5185(m)	1145	1207	1267	
	Zinc	ppm	ASTM D5185(m)	3	15	18	
	Sulfur	ppm	ASTM D5185(m)	17909	24725	28249	
	Visc @ 40°C	cSt	ASTM D7279(m)	99.6	155	200	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02619653 Unique Number : 5736763 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : LH0274865

Received : 04 Mar 2024 **Tested**

: 04 Mar 2024 Diagnosed

: 04 Mar 2024 - Kevin Marson

645 CORONATION DRIVE SCARBOROUGH, ON CA M1E 2K4

ASTRO SHORING

Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Service Manager - ASTSCA

T:

F: