

LIEBHERR 111447 Component Crowd Winch Drive Fluid PETRO CANADA TRAXON XL SYN BLEND 75W90 (10 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUI		

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

90 (10 LIR	/					
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0250434		
Sample Date		Client Info		05 Dec 2023		
Machine Age	hrs	Client Info		873		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		N/A		
Sample Status				NORMAL		
Iron	ppm	ASTM D5185(m)	>200	28		
Chromium	ppm	ASTM D5185(m)	>10	<1		
Nickel		ASTM D5185(m)	>10	0		
	ppm	()	>10	0		
Titanium	ppm	ASTM D5185(m)				
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		0		
Lead	ppm	ASTM D5185(m)		0		
Copper	ppm	ASTM D5185(m)		<1		
Tin	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
White Metal	scalar	Visual*	NONE	VLITE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water		WC Method	>0.2	NEG		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	VLITE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.2	NEG		
0				 		
Sodium Boron	ppm	ASTM D5185(m) ASTM D5185(m)	291	1 19		
Barium	ppm	ASTM D5185(m)	1	19 2		
Molybdenum	ppm	ASTM D5185(m)	1	0		
-	ppm	\ /				
Manganese Magnesium	ppm	ASTM D5185(m)	1	0		
0	ppm	ASTM D5185(m)	1	1		
Calcium	ppm	ASTM D5185(m)	1	69		
Phosphorus 7	ppm	ASTM D5185(m)	1121	519		
Zinc	ppm	ASTM D5185(m)	1	39		
Sulfur	ppm	ASTM D5185(m)	20900	8101		
Visc @ 40°C	cSt	ASTM D7279(m)	103.3	213		

Contact/Location: ? ? - KEL253ACH



