



LIEBHERR HS895HD 188227

Rear Right Slewing Gearbox

PETRO CANADA TRAXON 75W90 SYNTHETIC (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.



Copper and tin ppm levels are abnormal.

CONTAMINATION

There is no indication of any contamination in the oil.

		_	
FLU	'ONI	ПΤΙ	ON
ILU			

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

90 3 MITT		· · · · · · · · · · · · · · · · · · ·				
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0286563		
Sample Date		Client Info		01 Mar 2024		
Machine Age	hrs	Client Info		26121		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185(m)	>500	21		
Chromium	ppm	ASTM D5185(m)	>5	0		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		<1		
Lead	ppm	ASTM D5185(m)	>5	3		
Copper	ppm	ASTM D5185(m)	>35	111		
Tin	ppm	ASTM D5185(m)	>5	1 0		
Vanadium	ppm	ASTM D5185(m)		0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>25	<1		
Potassium	ppm	ASTM D5185(m)	>20	4		
Water		WC Method	>0.2	NEG		
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		
Emulsified Water	scalar	Visual*	>0.2	NEG		
Sodium	ppm	ASTM D5185(m)		<1		
Boron	ppm ppm	ASTM D5185(m) ASTM D5185(m)	328	<1 30		
Boron Barium		· · /	328 1			
Boron Barium Molybdenum	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		30 0 0		
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1	30 0 0 0		
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		30 0 0 0 4		
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 1 7	30 0 0 0 4 10		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1	30 0 0 0 4	 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 1 7 1145 3	30 0 0 4 10 782 21	 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 1 7 1145	30 0 0 4 10 782	 	

Contact/Location: Bernie Higgs - HIGSTT



HIGGS & HIGGS Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : 05 Mar 2024 RR # 4 : LH0286563 Received 6 Lab Number : 02619983 : 05 Mar 2024 ST THOMAS, ON Tested ISO 17025:2017 Accredited Laboratory : 06 Mar 2024 - Kevin Marson CA N5P 3S8 Unique Number : 5737093 Diagnosed Test Package : MOB 1 Contact: Bernie Higgs To discuss this sample report, contact Customer Service at 1-800-268-2131. T: (519)631-4095 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. F: (519)631-2745

Report Id: HIGSTT [WCAMIS] 02619983 (Generated: 03/06/2024 06:43:26) Rev: 1

Contact/Location: Bernie Higgs - HIGSTT Page 2 of 2