

Machine Id LIEBHERR LB28 115540

Center Slewing Gearbox

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

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

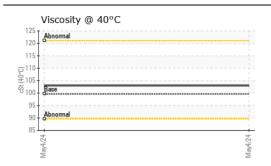
There is no indication of any contamination in the oil.

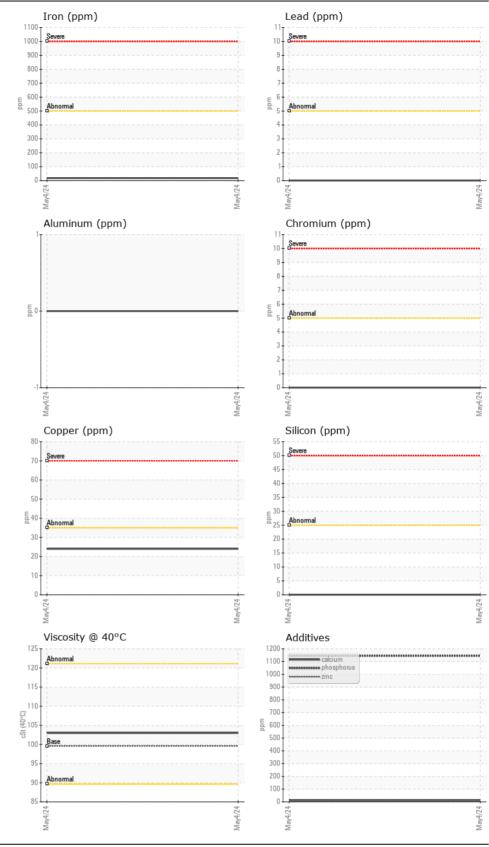
FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number	00101	Client Info	LIIIIUADI	LH0291209		THStoryz
•		Client Info				
Sample Date	la va			04 May 2024		
Machine Age	hrs	Client Info		12022		
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)	>500	17		
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)		0		
Lead	ppm	ASTM D5185(m)	>5	0		
Copper	ppm	ASTM D5185(m)	>35	24		
Tin	ppm	ASTM D5185(m)	>5	<1		
Vanadium	ppm	ASTM D5185(m)	20	0		
White Metal	scalar	Visual*	NONE	NONE		
	ooului			-		
Yellow Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Yellow Metal Silicon	scalar ppm	Visual* ASTM D5185(m)	NONE	NONE 0		
Silicon	ppm	ASTM D5185(m)	>25	0	 	
Silicon Potassium	ppm	ASTM D5185(m) ASTM D5185(m)	>25 >20	0 0		
Silicon Potassium Water	ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method	>25 >20 >0.2	0 0 NEG		
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual*	>25 >20 >0.2 NONE	0 0 NEG NONE		
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual*	>25 >20 >0.2 NONE NONE	0 0 NEG NONE NONE		
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual*	>25 >20 >0.2 NONE NONE NONE	0 0 NEG NONE NONE NONE		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	>25 >20 >0.2 NONE NONE NONE NORML	0 0 NEG NONE NONE NONE NORML		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual*	>25 >20 >0.2 NONE NONE NONE NORML NORML	0 0 NEG NONE NONE NONE NORML NORML NEG		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* Visual*	>25 >20 >0.2 NONE NONE NORML NORML >0.2	0 0 NEG NONE NONE NORML NORML NEG		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>25 >20 >0.2 NONE NONE NORML >0.2	0 0 NEG NONE NONE NORML NORML NEG <1 301		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>25 >20 >0.2 NONE NONE NORML NORML >0.2	0 0 NEG NONE NONE NORML NORML NEG <1 301 0		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25 >20 >0.2 NONE NONE NORML >0.2	0 0 NEG NONE NONE NORML NORML NEG <1 301 0 0		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25 >20 >0.2 NONE NORME NORML >0.2 328 1	0 0 NEG NONE NONE NORML NORML NEG <1 301 0 0 0		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25 >20 >0.2 NONE NONE NORML >0.2 328 1	0 0 NEG NONE NONE NORML NORML NEG <1 301 0 0 0 0 1		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25 >20 >0.2 NONE NONE NORML NORML >0.2 328 1 328 1 1 7	0 0 NEG NONE NONE NORML NORML NEG <1 301 0 0 0 0 1 1		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	 >25 >20 >0.2 NONE NORML >0.2 328 1 1 7 1145 	0 0 NEG NONE NONE NORML NORML NEG <1 301 0 (0 0 0 1 11 11		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	 >25 >20 >0.2 NONE NORML >0.2 328 1 1 7 1145 3 	0 0 NEG NONE NONE NORML NORML NEG <1 301 0 0 0 0 1 1 11 1145 11		
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	 >25 >20 >0.2 NONE NORML >0.2 328 1 1 7 1145 	0 0 NEG NONE NONE NORML NORML NEG <1 301 0 (0 0 0 1 11 11		

Contact/Location: Service Manager - MAPCAM





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Maple Site Solutions Inc. CALA Sample No. Received 766 Old Hespeler Rd. : LH0291209 :07 May 2024 Lab Number : 02633937 Cambridge, ON Tested :07 May 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5775090 Diagnosed : 07 May 2024 - Wes Davis Test Package : MOB 1 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.

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Report Id: MAPCAM [WCAMIS] 02633937 (Generated: 05/07/2024 14:40:00) Rev: 1
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Contact/Location: Service Manager - MAPCAM Page 2 of 2