



Machine Id LIEBHERR PR736LGP 020009-1736

Right Final Drive

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

RECOMMENDATION

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



All component wear rates are normal.

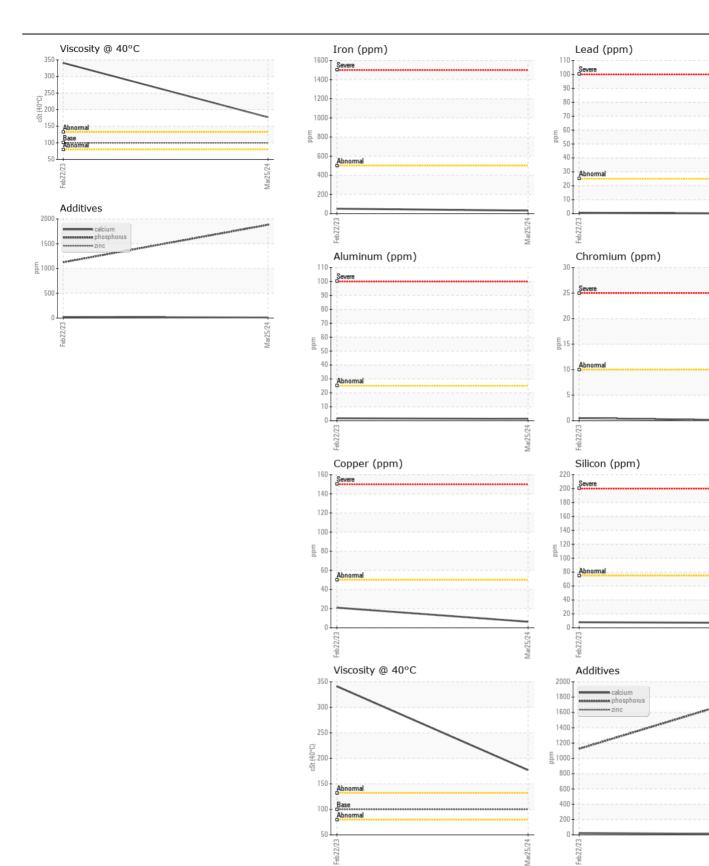
CONTAMINATION

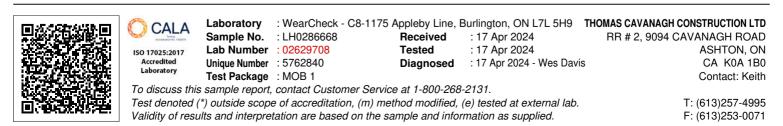
There is no indication of any contamination in the oil.

FLU		
ILU		

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Test UOM Method LimitAb Current History1 History2 Sample Number Client Info C LH028668 LH023753 Sample Date Client Info 2903 22 Feb 203 Machine Age hrs Client Info Q 0 Filter Age hrs Client Info C Changed Changed Gli Changed Ins Client Info None None Sample Status - Client Info None None Simple Status - None ASINO5185(m) S10 Nickel pm ASTM05185(m) >10 Nickel pm ASTM05185(m) >10 Silver pm ASTM05185(m) >10 0 Auminum pm ASTM05185(m) >10 0 Silver	_				(\cdot)		
Sample DateClient InfoZ Mar 202421 Peb 2023Machine AgehrsClient Info29032011Gil AgehrsClient Info00Filter AgehrsClient InfoCChangedGil ChangedIClient InfoMoneRongedFilter ChangedIClient InfoNoneNoneSample StatusClient InfoNoneNoneSample StatusVSilonS10S11511IronppmASTMDS185(n>500S1NickelppmASTMDS185(n>10CNickelppmASTMDS185(n>10CSilverppmASTMDS185(n>10CAluminumppmASTMDS185(n>20CAluminumppmASTMDS185(n>50G1Yellow MetaiscalaVisual"NONE0SiliconppmASTMDS185(n>10G1Yellow MetaiscalaVisual"NONENONENONESiliconppASTMDS185(n>20CYellow MetaiscalaVisual"NONENONENONESiliconppASTMDS185(nScalaNONENONENONE <th>Test</th> <th>UOM</th> <th>Method</th> <th>Limit/Abn</th> <th>Current</th> <th>History1</th> <th>History2</th>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient InfoQ29032011Oil AgehrsClient Info00Filter AgehrsClient InfoCChangedOil ChangedClient InfoNoneNoneFilter ChangedClient InfoNoneNoneSample StatusClient InfoNoneABNORMALIronppmASTMD5185(m)>5003151IronppmASTMD5185(m)>10C1<NickelppmASTMD5185(m)>10C1<NickelppmASTMD5185(m)>10C1<SilverppmASTMD5185(m)>20C1AluminumppmASTMD5185(m)>20C1QopperppmASTMD5185(m)>20C1VanadiumppmASTMD5185(m)>20C1Yellow MetalscalarVisual*NONENONENONESiliconppmASTMD5185(m)>20C1Yellow MetalscalarVisual*NONENONENONEYellow MetalscalarVisual*NONENONENONESiliconppmASTMD5185(m)20<1Yellow MetalscalarVisual*NONENONENONE </th <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>LH0286668</th> <th>LH0237753</th> <th></th>	Sample Number		Client Info		LH0286668	LH0237753	
Oil AgehrsClient InfoO0Filter AgehrsClient InfoChangedCh	Sample Date		Client Info		25 Mar 2024	22 Feb 2023	
Filter Age Oil ChangedhrsClient InfoCCChangedCCC<	Machine Age	hrs	Client Info		2903	2011	
Oil ChangedClient InfoChangeddChangeddChangeddCha	Oil Age	hrs	Client Info		0	0	
Filter Changed Sample StatusClient InfoNoneNoneNoneSample StatusClient InfoNoneABNORIALABNORIALIronppmASTM D5185(m)>50031511511ChromiumppmASTM D5185(m)>100<11NickelppmASTM D5185(m)>10<11TitaniumppmASTM D5185(m)>2512SilverppmASTM D5185(m)>250AluminumppmASTM D5185(m)>50066211LeadppmASTM D5185(m)>50066211VanadiumppmASTM D5185(m)>5006000VanadiumppmASTM D5185(m)>500600Vellow MetalscalarVisual*NONENONENONESiliconppmASTM D5185(m)>20c1SiliconppmASTM D5185(m)>20c1SiliconppmASTM D5185(m)>20NONENONESiliconppmASTM D5185(m)>20NONENONESiliconppmASTM D5185(m)NONENONENONESiliconppmASTM D5185(m)NONE <t< th=""><th>Filter Age</th><th>hrs</th><th>Client Info</th><th></th><th>0</th><th>0</th><th></th></t<>	Filter Age	hrs	Client Info		0	0	
Sample StatusNORMALABNORMALIronppmASTM D5186/m>50031511ChromiumppmASTM D5186/m>100<11NickelppmASTM D5186/m>10<11<11NickelppmASTM D5186/m>10<11<11SilverppmASTM D5186/m>2512AluminumppmASTM D5186/m>250<11<LeadppmASTM D5186/m>506211<CopperppmASTM D5186/m>506211<VanadiumppmASTM D5186/m>506211<VanadiumppmASTM D5186/m>506211<Vellow MetalscalarVisual*NONENONENONESiliconppmASTM D5185/m>778SiliconppmASTM D5185/m>20<1<SiliconppmASTM D5185/m>20NONENONESiliconppmASTM D5185/m>20NONENONESiliconppmASTM D5185/m>20NONENONESiliconppmASTM D5185/mNONENONESoliconppmASTM D5185/mNONENONESiliconppmASTM D5185/mNONENONE	Oil Changed		Client Info		Changed	Changed	
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Chromium NickelppmASTM DS185(m)>100<11	Sample Status				NORMAL	ABNORMAL	
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NickelppmASTM D5186m>10<1			()			-	
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PotassiumppmASTM D5185(m)>20<1	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
PotassiumppmASTM D5185(m)>20<1							
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Sand/DirtscalarVisual*NONENONENONENORML	Potassium		ASTM D5185(m)	>20	<1	<1	
AppearancescalarVisual*NORML<	Potassium Water	ppm	ASTM D5185(m) WC Method	>20 >0.2	<1 NEG	<1 NEG	
OdorscalarVisual*NORMLNORMLNORMLEmulsified WaterscalarVisual*>0.2NEGNEGSodiumppmASTM D5185(m)22BoronppmASTM D5185(m)328400844BariumppmASTM D5185(m)12177MolybdenumppmASTM D5185(m)12177ManganeseppmASTM D5185(m)122MagnesiumppmASTM D5185(m)122PhosphorusppmASTM D5185(m)711124ZincppmASTM D5185(m)311120SulfurppmASTM D5185(m)31120	Potassium Water Silt	ppm scalar	ASTM D5185(m) WC Method Visual*	>20 >0.2 NONE	<1 NEG NONE	<1 NEG NONE	
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Sodium ppm ASTM D5185(m) 2 2 Boron ppm ASTM D5185(m) 328 40 844 Barium ppm ASTM D5185(m) 1 2 177 Molybdenum ppm ASTM D5185(m) 1 2 0 Manganese ppm ASTM D5185(m) I <1 <1 Magnesium ppm ASTM D5185(m) I 2 2 Magnesium ppm ASTM D5185(m) I 2 2 Phosphorus ppm ASTM D5185(m) I 2 2 Phosphorus ppm ASTM D5185(m) I 11 24 Zinc ppm ASTM D5185(m) I 11 20 Sulfur ppm ASTM D5185(m) I 11 20	Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual*	>20 >0.2 NONE NONE NONE	<1 NEG NONE NONE NONE	<1 NEG NONE NONE NONE	
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Boron ppm ASTM D5185(m) 328 40 84 Barium ppm ASTM D5185(m) 1 2 17 Molybdenum ppm ASTM D5185(m) 1 2 17 Manganese ppm ASTM D5185(m) 1 0 0 Magnesium ppm ASTM D5185(m) 1 2 2 Calcium ppm ASTM D5185(m) 1 2 2 Phosphorus ppm ASTM D5185(m) 7 11 24 Zinc ppm ASTM D5185(m) 1145 1882 1124 Sulfur ppm ASTM D5185(m) 3 11 20	Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual*	>20 >0.2 NONE NONE NORML NORML	<1 NEG NONE NONE NORE NORML NORML	<1 NEG NONE NONE NONE NORML NORML	
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Manganese ppm ASTM D5185(m) <	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2	<1 NEG NONE NONE NORML NORML NEG 2 40	<1 NEG NONE NONE NORML NORML NEG 2 84	
Magnesium ppm ASTM D5185(m) 1 2 2 Calcium ppm ASTM D5185(m) 7 11 24 Phosphorus ppm ASTM D5185(m) 1145 1882 1124 Zinc ppm ASTM D5185(m) 3 11 20 Sulfur ppm ASTM D5185(m) 17909 23624 22201	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2	<1 NEG NONE NONE NORML NORML NEG 2 40 2	<1 NEG NONE NONE NORML NORML NEG 2 84 17	
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Phosphorus ppm ASTM D5185(m) 1145 1882 1124 Zinc ppm ASTM D5185(m) 3 11 20 Sulfur ppm ASTM D5185(m) 17909 23624 22201	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 328 1	<1 NEG NONE NONE NORML NORML NEG 2 40 2 40 2 40 2	<1 NEG NONE NONE NORML NORML NEG 2 84 17 0 <1	
Zinc ppm ASTM D5185(m) 3 11 20 Sulfur ppm ASTM D5185(m) 17909 23624 22201	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	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)	>20 >0.2 NONE NONE NORML NORML >0.2 328 1	<1 NEG NONE NONE NORML NORML NEG 2 40 2 40 2 0 <1 2	<1 NEG NONE NONE NORML NORML NEG 2 84 17 0 <1 2	
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	Potassium Water Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	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)	>20 >0.2 NONE NONE NORML >0.2 328 1 328 1 1 7 1145	<1 NEG NONE NONE NORML NORML NEG 2 40 2 40 2 40 2 1 1 2 11 1882	<1 NEG NONE NONE NORML NORML NEG 2 84 17 0 <1 2 2 4 12 24 1124	
	Potassium Water Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	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) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 328 1 328 1 1 7 1145 3	<1 NEG NONE NONE NORML NORML NEG 2 40 2 40 2 40 2 1 1 1 1882 11	<1 NEG NONE NONE NORML NORML NEG 2 84 17 0 <1 2 2 4 12 24 1124 20	





Submitted By: ? Page 2 of 2