



(360536) Machine Id LIEBHERR LR636 022632-1725

Right Final Drive

PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (--- 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

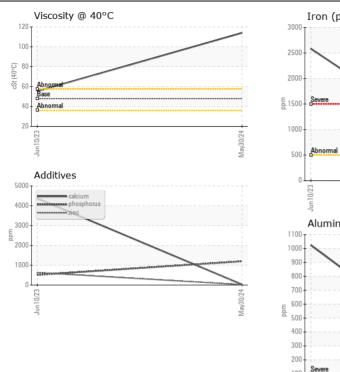
There is no indication of any contamination in the oil.

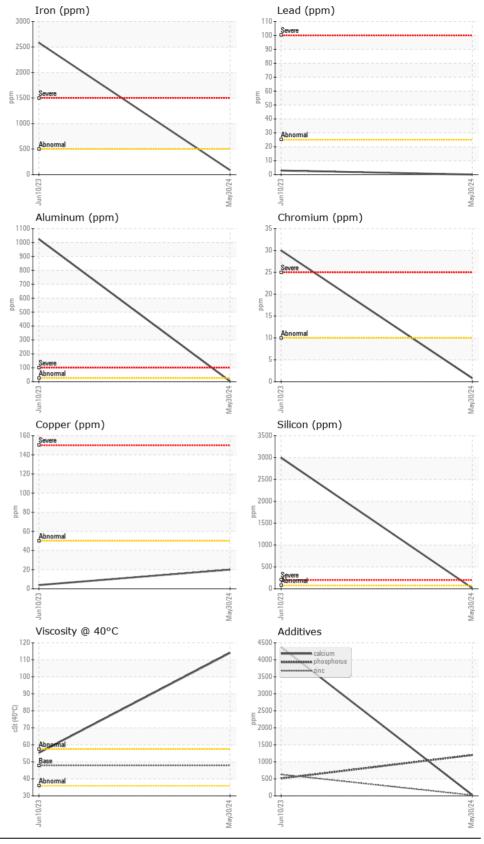
FLU		
ILU		

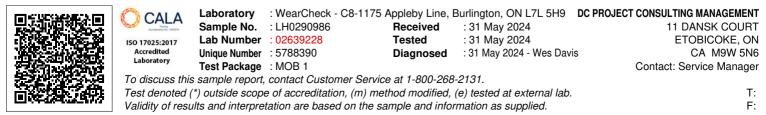
Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

TestU/MMethodLmm/aCurrentHistory iHistory i <t< th=""><th>T</th><th></th><th></th><th>Line Males</th><th></th><th>L. Backson of</th><th>L l'atau 0</th></t<>	T			Line Males		L. Backson of	L l'atau 0
Sample DateClient InfoJol May 202410 Jun 2023Machine AgehrsClient Info25631723Filter AgehrsClient Info00Filter AgehrsClient InfoN/AChangedGli ChangedIClient InfoN/AN/AFilter ChangedIClient InfoN/AN/ASample StatusIClient InfoN/AN/ASample StatusVSilverA30 dIronpmASTM DS1850>500864<2582NickelpmASTM DS1850>10<114.36NickelpmASTM DS1850>10<146.68SilverpmASTM DS1850>10<16.68AluminumpmASTM DS1850>2503OpperpmASTM DS1850>10<1VanadiumpmASTM DS1850>10<1VanadiumpmASTM DS1850>10<1VanadiumpmASTM DS1850>10<1VanadiumpmASTM DS1850>10<1VanadiumpmASTM DS1850>20238VanadiumpmASTM DS1850>2010Vanadium	Test	UOM	Method	Limit/Abn	Current	History1	History2
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NickelppmASTM D5186m>10<1	Chromium		ASTM D5185(m)	>10	<1	a 30	
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Phosphorus ppm ASTM D5185(m) 670 1198 511 Zinc ppm ASTM D5185(m) 850 19 628 Sulfur ppm ASTM D5185(m) 1600 21727 6901	Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar ppm ppm ppm	Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NORML >0.2 0 0 0	NORML NORML NEG 2 254 12 0	NORML NORML .2% 119 8 52 3	
Zinc ppm ASTM D5185(m) 850 19 628 Sulfur ppm ASTM D5185(m) 1600 21727 6901	Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar ppm ppm ppm ppm ppm	Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NORML >0.2 0 0 0 1	NORML NORML 2 254 12 0 1	NORML NORML .2% 119 8 52 3 30	
Zinc ppm ASTM D5185(m) 850 19 628 Sulfur ppm ASTM D5185(m) 1600 21727 6901	Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar ppm ppm ppm ppm ppm	Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NORML >0.2 0 0 0 0 1 0	NORML NORML 2 254 12 0 1 4	NORML NORML ▲ .2% 119 8 52 3 30 493	
	Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar ppm ppm ppm ppm ppm ppm	Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NORML >0.2 0 0 0 0 1 0 1 0 100	NORML NORML 2 254 12 0 1 4 28	NORML NORML 2% 119 8 52 3 30 493 4377	
	Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar ppm ppm ppm ppm ppm ppm	Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NORML >0.2 0 0 0 0 1 0 1 0 100 670	NORML NORML NEG 2 254 12 0 1 4 28 1198	NORML NORML .2% 119 8 52 3 30 493 4377 511	
	Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar ppm ppm ppm ppm ppm ppm ppm	Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NORML >0.2 0 0 0 0 1 0 100 670 850	NORML NORML 2 254 12 0 1 4 28 1198 19	NORML NORML ▲ .2% 119 8 52 3 30 493 4377 511 628	

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Contact/Location: Service Manager - DCPETO Page 2 of 2