

WL081

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



KEMP QUARRIES / RVM-BUTTERFIELD

Front Differential

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

RECOMMENDATION	
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Resample at the next service interval to monitor. (Customer Sample Comment: PM-1 sampled fluid)

All component wear rates are normal.

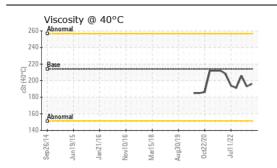
CONTAMINATION

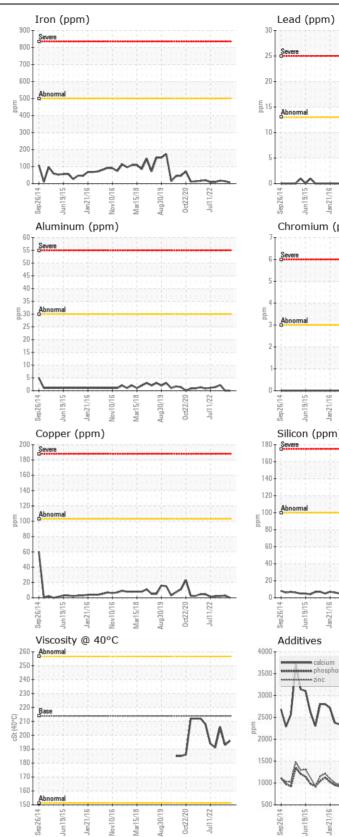
There is no indication of any contamination in the oil.

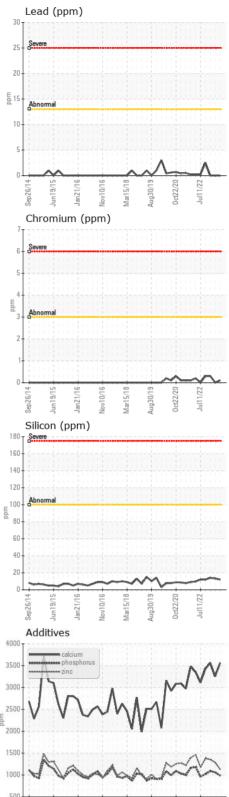
FLUID CONDITION

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

Sample DateClient InfoOf May 202408 Nov 202301 Jun 2023Machine AgehrsClient Info427984231541808Oil AgehrsClient Info000Oil ChangedClient InfoN/AKASN/AFilter ChangedClient InfoN/AN/AN/ASample StatusClient InfoN/AN/AN/ASample StatusClient InfoN/ANORMALNORMALIronppmASTM D5185m>50061417ChromiumppmASTM D5185m>3300<1NickelppmASTM D5185m>3000<1NickelppmASTM D5185m>30000SilverppmASTM D5185m>22000AluminumppmASTM D5185m>23000VanadiumppmASTM D5185m>103000VanadiumppmASTM D5185m>103000VanadiumppmASTM D5185m>103000VanadiumppmASTM D5185m>104000VanadiumppmASTM D5185m>104000VanadiumppmASTM D5185m>104000VanadiumppmASTM D5185m>104000VanadiumppmASTM D5185m>104NONEN		\	/				
Sample DateClient InfoOf May 202408 Nov 202301 Jun 2023Machine AgehrsClient Info427984231541808Oil AgehrsClient Info000Gli ChangedClient InfoN/AN/AN/AFilter ChangedClient InfoN/AN/AN/ASample StatusClient InfoN/AN/AN/ASample StatusClient InfoN/AN/AN/ASample StatusSample StatusSample StatusSample StatusSample StatusIronppmASTM D5185mSample StatusO0NickelppmASTM D5185mSaO0<1NickelppmASTM D5185mSaO00SilverppmASTM D5185mSaO00AluminumppmASTM D5185mSaO00AluminumppmASTM D5185mSaClient00VanadiumppmASTM D5185mSaClient00VanadiumppmASTM D5185mSaClientNONENONEVellow Metalscalar"VisualNONENONENONENONESiliconppmASTM D5185mSaClientNONENONENONESiliconppmASTM D5185mSaNONENONENONENONESiliconppmASTM D5185mSaNONENONENONENONE <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 Info427984231541808Oil AgehrsClient Info427984231541808Filter AgehrsClient InfoN/AChangedN/AOil ChangedClient InfoN/AN/AN/ASample StatusClient InfoN/AN/AN/AIronppmASTM D5185m>50061417ChromiumppmASTM D5185m>30c10<1NickelppmASTM D5185m>3000<1NickelppmASTM D5185m>20000SilverppmASTM D5185m>30002LeadppmASTM D5185m>30002LeadppmASTM D5185m>130032TinppmASTM D5185m>50610<10VanadiumppmASTM D5185m>1000000Vellow Metalscalar'VisualNONENONENONENONENONESiliconppmASTM D5185m>10012131414PotassiumppmASTM D5185m>20001WatervisualNONENONENONENONENONESiliconppmASTM D5185m>20001WatervisualNONENONENONENONENONE <t< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>PCA0108661</th><th>PCA0087075</th><th>PCA0085776</th></t<>	Sample Number		Client Info		PCA0108661	PCA0087075	PCA0085776
Cili Age Filter AgehrsCilent Info427984231541808Filter AgehrsCilent Info000Oil ChangedCilent InfoN/AN/AN/AFilter ChangedCilent InfoN/AN/AN/ASample StatusStill D518s>50061417ChromiumppmASTM D518s>3061417ChromiumppmASTM D518s>300<1<1NickelppmASTM D518s>200<1NickelppmASTM D518s>2000SilverppmASTM D518s>30002LeadppmASTM D518s>1300<1CopperppmASTM D518s>5001000White Metalscalar'VisualNONENONENONENONESiliconppmASTM D518s>100114NONEVellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D518s>20001Vellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D518s>20001Vellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D518s>20001Vellow Metal	Sample Date		Client Info		07 May 2024	08 Nov 2023	01 Jun 2023
Filter AgehrsClient Info000Oil ChangedClient InfoN/AChangedN/AFilter ChangedClient InfoN/AN/ASample StatusNORMALNORMALNORMALIronppmASTM D5185m>500614IronppmASTM D5185m>3<10<1NickelppmASTM D5185m>300<1TitaniumppmASTM D5185m>2000SilverppmASTM D5185m>2000AluminumppmASTM D5185m>30000CopperppmASTM D5185m>5<10<1VanadumppmASTM D5185m>5<10<1VanadumppmASTM D5185m>5001000White Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185m>10011114PotassiumppmASTM D5185m>20001WatervisualNONENONENONENONENONESoliconppmASTM D5185m>20001WatervisualNONENONENONENONENONESoliconppmASTM D5185m>20001WatervisualNONENONENONENONENONE <t< th=""><th>Machine Age</th><th>hrs</th><th>Client Info</th><th></th><th>42798</th><th>42315</th><th>41808</th></t<>	Machine Age	hrs	Client Info		42798	42315	41808
Oli ChangedClient InfoN/AChangedN/AFilter ChangedClient InfoN/AN/AN/ASample StatusNORMALNORMALNORMALNORMALIronppmASTM D5185m>50061417ChromiumppmASTM D5185m>30<10<1NickelppmASTM D5185m>3000<1NickelppmASTM D5185m>2000SilverppmASTM D5185m>30002LeadppmASTM D5185m>133000CopperppmASTM D5185m>50<10<1VanadiumppmASTM D5185m>50<10<1Vellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185m>100121314PotassiumppmASTM D5185m>20001SiliconppmASTM D5185m>2000NONESiliconscalar'VisualNONENONENONENONESolidorppmASTM D5185m>20001PotassiumppmASTM D5185m>20NONENONESiliconppmASTM D5185m>20NONENONESolidorppmASTM D5185m>20NONENONESolidorppmASTM D5185m>20 <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>42798</th> <th>42315</th> <th>41808</th>	Oil Age	hrs	Client Info		42798	42315	41808
Filter ChangedClient InfoN/AN/AN/ASample StatusClient InfoN/AN/AN/AIronppmASTM D5185m>50061417ChromiumppmASTM D5185m>3<10<1NickelppmASTM D5185m>300<1NickelppmASTM D5185m>2000SilverppmASTM D5185m>2000SilverppmASTM D5185m>2000AluminumppmASTM D5185m>13000CopperppmASTM D5185m>1030332TinppmASTM D5185m>5<100VanadiumppmASTM D5185m>50<100White Metalscalar*VisualNONENONENONENONEVellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>100121314PotassiumppmASTM D5185m>10001NONESiliconppmASTM D5185m>100NONENONENONESiliconppmASTM D5185m>100NONENONENONESoliconppmASTM D5185m>100NONENONENONESoliconppmASTM D5185m>20001Wetar<	Filter Age	hrs	Client Info		0	0	0
Sample StatusNORMALNORMALNORMALNORMALIronppmASTM D5185m>50061417ChromiumppmASTM D5185m>300<1NickelppmASTM D5185m>300<1NickelppmASTM D5185m>2000SilverppmASTM D5185m>2000AluminumppmASTM D5185m>2000AluminumppmASTM D5185m>103002LeadppmASTM D5185m>1030321VanadiumppmASTM D5185m>1030000White Metalscalar*VisualNONENONENONENONENONEVellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>100121314PotassiumppmASTM D5185m>20001WaterVisualNONENONENONENONENONESilitonscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORNORENORENOREAppearancescalar*VisualNORHNORHNORHNORHCodorscalar*VisualNORNORENORENOREAppearancescalar*Visu	Oil Changed		Client Info		N/A	Changed	N/A
IronppmASTM D5185m>50061417ChromiumppmASTM D5185m>3<10<1NickelppmASTM D5185m>300<1NickelppmASTM D5185m>2000SilverppmASTM D5185m>2000AluminumppmASTM D5185m>2000AluminumppmASTM D5185m>30002LeadppmASTM D5185m>13000CopperppmASTM D5185m>13000YanadiumppmASTM D5185m>5<10<1VanadiumppmASTM D5185m>5<10<1Yellow Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>100121314PotassiumppmASTM D5185m>20001WaterVisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLAppearancescalar*VisualNORNORENORENORESodiumppmASTM D5185m010 <td< th=""><th>Filter Changed</th><th></th><th>Client Info</th><th></th><th>N/A</th><th>N/A</th><th>N/A</th></td<>	Filter Changed		Client Info		N/A	N/A	N/A
Chromium ppm ASTM D5185m >3 <1	Sample Status				NORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >3 <1	lron			. 500	6		17
NickelppmASTM D5185m>300<1	-				-		
Titanium ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >30 0 0 2 Lead ppm ASTM D5185m >13 0 0 0 Copper ppm ASTM D5185m >13 0 3 2 Tin ppm ASTM D5185m >5 <1 0 <1 Vanadium ppm ASTM D5185m >5 <1 0 <1 Vanadium ppm ASTM D5185m >100 12 13 14 Potassium ppm ASTM D5185m >20 0 0 1 Water wC Method >.2 NEG NEG NORE Said/Dirit scalar *Visual NORE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML							
Number ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >30 0 0 2 Lead ppm ASTM D5185m >13 0 0 2 Copper ppm ASTM D5185m >103 0 3 2 Tin ppm ASTM D5185m >5 <1					-		
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Lead ppm ASTM D5185m >13 0 0 0 Copper ppm ASTM D5185m >103 0 3 2 Tin ppm ASTM D5185m >5 <1 0 <1 Vanadium ppm ASTM D5185m >5 <1 0 0 0 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m >100 12 13 14 Potassium ppm ASTM D5185m >20 0 0 1 Water WC Method >2 NEG NEG NORE NONE Debris scalar *Visual NONE NONE NONE NORHL NORHL Appearance scalar *Visual NORH NORML NORML NORHL					-		
Copper ppm ASTM D5185m >103 0 3 2 Tin ppm ASTM D5185m >5 <1 0 <1 Vanadium ppm ASTM D5185m >5 <1 0 <1 Vanadium ppm ASTM D5185m Image: Composition of the text of text o							
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VanadiumppmASTM D5185m000White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>100121314PotassiumppmASTM D5185m>20001WaterWC Method>.2NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORNORMLNORMLNORMLOdorscalar*VisualNORNORMLNORMLNORMLBoronppmASTM D5185m2000BariumppmASTM D5185m010<1MaganeseppmASTM D5185m010<1MagnesiumppmASTM D5185m3114356432553564PhosphorusppmASTM D5185m1245112912851354SulfurppmASTM D51	••				-		
White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>100121314PotassiumppmASTM D5185m>20001WaterWC Method>.2NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORMLNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*Visual>.2NEGNEGNEGSodiumppmASTM D5185m2000BariumppmASTM D5185m010<1ManganeseppmASTM D5185m0<10<1MagnesiumppmASTM D5185m3114356432553564PhosphorusppmASTM D5185m1245112912851354 <th></th> <th></th> <th></th> <th>>5</th> <th></th> <th></th> <th></th>				>5			
Yellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>100121314PotassiumppmASTM D5185m>20001WaterWC Method>.2NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*Visual>.2NEGNEGNEGSodiumppmASTM D5185m20000BariumppmASTM D5185m0100<1ManganeseppmASTM D5185m0<18188233564PhosphorusppmASTM D5185m3114356432553564PhosphorusppmASTM D5185m1245112912851354SulfurppmASTM D5185m7086482543115717				NONE			
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WaterWC Method>.2NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGSodiumppmASTM D5185m2000BariumppmASTM D5185m010<1MagnesiumppmASTM D5185m0181823CalciumppmASTM D5185m3114356432553564PhosphorusppmASTM D5185m109998710581086ZincppmASTM D5185m7086482543115717	Silicon	ppm	ASTM D5185m	>100	12	13	14
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGSodiumppmASTM D5185m2000BoronppmASTM D5185m0100BariumppmASTM D5185m010<1ManganeseppmASTM D5185m0181823CalciumppmASTM D5185m3114356432553564PhosphorusppmASTM D5185m109998710581086ZincppmASTM D5185m1245112912851354	Potassium	ppm	ASTM D5185m	>20	0	0	1
Debrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGSodiumppmASTM D5185m2000BoronppmASTM D5185m0100BariumppmASTM D5185m0100MolybdenumppmASTM D5185m010<1MagnesiumppmASTM D5185m0181823CalciumppmASTM D5185m109998710581086PhosphorusppmASTM D5185m1245112912851354SulfurppmASTM D5185m7086482543115717	Water		WC Method	>.2	NEG	NEG	NEG
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGSodiumppmASTM D5185m2000BoronppmASTM D5185m2000BariumppmASTM D5185m0100MolybdenumppmASTM D5185m0100<1MagnesiumppmASTM D5185m3114356432553564PhosphorusppmASTM D5185m109998710581086ZincppmASTM D5185m1245112912851354SulfurppmASTM D5185m7086482543115717	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGSodiumppmASTM D5185m2 c1 12BoronppmASTM D5185m2 0 00BariumppmASTM D5185m0100MolybdenumppmASTM D5185m0 1 0<1ManganeseppmASTM D5185m0 1 0<1MagnesiumppmASTM D5185m9 18 18823CalciumppmASTM D5185m1099 987 10581086PhosphorusppmASTM D5185m1245 1129 12851354SulfurppmASTM D5185m7086 4825 43115717	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEGSodiumppmASTM D5185m12BoronppmASTM D5185m0100BariumppmASTM D5185m0100MolybdenumppmASTM D5185m0101ManganeseppmASTM D5185m0<10<	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Waterscalar*Visual>.2NEGNEGNEGSodiumppmASTM D5185m<<112BoronppmASTM D5185m2000BariumppmASTM D5185m0100MolybdenumppmASTM D5185m000<1ManganeseppmASTM D5185m0<10<1MagnesiumppmASTM D5185m9181823CalciumppmASTM D5185m3114356432553564PhosphorusppmASTM D5185m109998710581086ZincppmASTM D5185m1245112912851354SulfurppmASTM D5185m7086482543115717	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium ppm ASTM D5185m <1	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron ppm ASTM D5185m 2 0 0 0 Barium ppm ASTM D5185m 0 1 0 0 Molybdenum ppm ASTM D5185m 0 1 0 0 Manganese ppm ASTM D5185m 0 <1 0 <1 Magnesium ppm ASTM D5185m 0 <1 0 <1 Magnesium ppm ASTM D5185m 9 18 18 23 Calcium ppm ASTM D5185m 3114 3564 3255 3564 Phosphorus ppm ASTM D5185m 1099 987 1058 1086 Zinc ppm ASTM D5185m 1245 1129 1285 1354 Sulfur ppm ASTM D5185m 7086 4825 4311 5717	Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Boron ppm ASTM D5185m 2 0 0 0 Barium ppm ASTM D5185m 0 1 0 0 Molybdenum ppm ASTM D5185m 0 1 0 0 Manganese ppm ASTM D5185m 0 <1 0 <1 Magnesium ppm ASTM D5185m 0 <1 0 <1 Magnesium ppm ASTM D5185m 9 18 18 23 Calcium ppm ASTM D5185m 3114 3564 3255 3564 Phosphorus ppm ASTM D5185m 1099 987 1058 1086 Zinc ppm ASTM D5185m 1245 1129 1285 1354 Sulfur ppm ASTM D5185m 7086 4825 4311 5717	Sodium	ppm	ASTM D5185m		<1	1	2
Barium ppm ASTM D5185m 0 1 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 <1			ASTM D5185m	2	0	0	0
Molybdenum ppm ASTM D5185m 0 0 0 <1	Barium			0		0	
Manganese ppm ASTM D5185m 0 <1	Molybdenum		ASTM D5185m	0	0	0	<1
Magnesium ppm ASTM D5185m 9 18 18 23 Calcium ppm ASTM D5185m 3114 3564 3255 3564 Phosphorus ppm ASTM D5185m 1099 987 1058 1086 Zinc ppm ASTM D5185m 1245 1129 1285 1354 Sulfur ppm ASTM D5185m 7086 4825 4311 5717					<1		
Calcium ppm ASTM D5185m 3114 3564 3255 3564 Phosphorus ppm ASTM D5185m 1099 987 1058 1086 Zinc ppm ASTM D5185m 1245 1129 1285 1354 Sulfur ppm ASTM D5185m 7086 4825 4311 5717	Magnesium		ASTM D5185m	9	18	18	23
Phosphorus ppm ASTM D5185m 1099 987 1058 1086 Zinc ppm ASTM D5185m 1245 1129 1285 1354 Sulfur ppm ASTM D5185m 7086 4825 4311 5717	Calcium		ASTM D5185m	3114	3564	3255	3564
Zinc ppm ASTM D5185m 1245 1129 1285 1354 Sulfur ppm ASTM D5185m 7086 4825 4311 5717	Phosphorus		ASTM D5185m	1099	987	1058	1086
Sulfur ppm ASTM D5185m 7086 4825 4311 5717			ASTM D5185m		1129	1285	1354
	Sulfur		ASTM D5185m	7086		4311	5717
	Visc @ 40°C		ASTM D445		196	193	206









Sample No. : PCA0108661 Received : 13 May 2024 Lab Number : 06177984 Tested : 14 May 2024 Diagnosed Unique Number : 11029310 : 15 May 2024 - Sean Felton Test Package : MOB 1 Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. lduchanois@kempquarries.com

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Laboratory

Jul11/22.

Purdy, MO

US 65734

Т:

F:

8651 Farm Rd 2115

Contact: LEE DUCHANOIS

Mar15/18

Aug30/19

Kemp Quarries - RVM-Butterfield