

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ATTENTION

KEMP QUARRIES / PRYOR STONE [68779]

OHT110 Component

Rear Right Final Drive

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

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Pm4 performed. All oil samples taken. All oils, and all filters changed.)

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All component wear rates are normal.

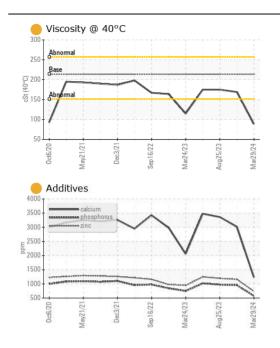
CONTAMINATION

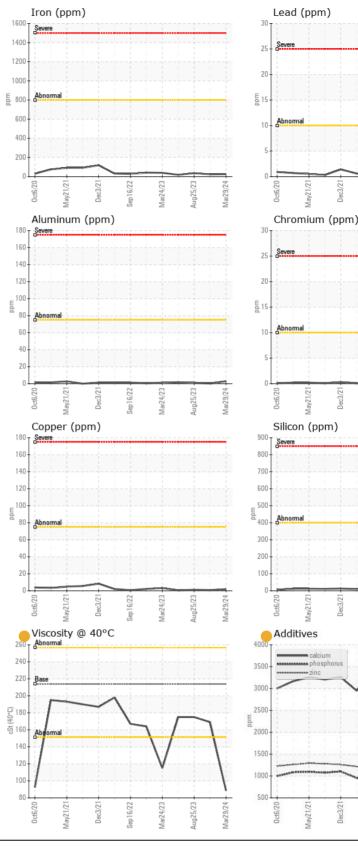
There is no indication of any contamination in the oil.

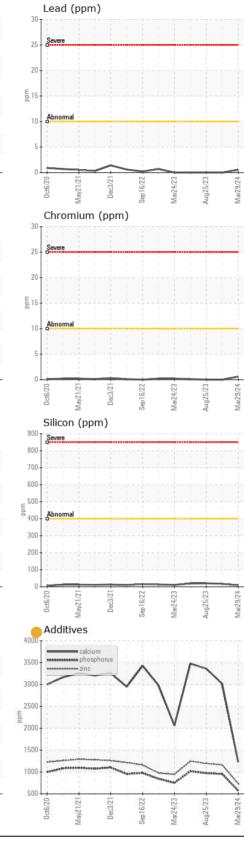
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The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sample DateClient Info29 Mar 202426 Oct 202325 Aug 2027Machine AgehrsClient Info292402843528083Oil AgehrsClient Info21451340988Filter AgehrsClient InfoCChangedOil AddedOil AddedOil ChangedClient InfoMrAN/AN/AN/AN/ASample StatusClient InfoMrAN/AN/AN/ASample StatusVXTENTIONORMALNORMALOIronppASTM D5185>800252335ChromiumppASTM D5185>5<100NickelppASTM D5185>5<100NickelppASTM D5185>703<11LeadppASTM D5185>753<11LeadppASTM D5185>752<11VanadiumppASTM D5185>752<11Yellow Metalscatar"VisualNONENONENONENONEYellow Metalscatar"VisualNONENONENONENONENONESiliconppASTM D5185>40NONENONENONENONEYellow Metalscatar"VisualNONENONENONENONENONESiliconppASTM D5185>40NONENONENONENONESilicon <td< th=""><th>-4 SAE 50</th><th>(0/</th><th>~L)</th><th></th><th></th><th></th><th></th></td<>	-4 SAE 50	(0/	~ L)				
Sample DateClient Info29 Mar 202426 Oct 202325 Aug 2023Machine AgehrsClient Info292402843528083Oil AgehrsClient Info21451340988Filter AgehrsClient InfoChangedOil AddedOil AddedOil ChangedClient InfoN/AN/AN/AN/ASample StatusClient InfoI/AN/AN/AN/ASample StatusSample StatusSample StatusATTENTIOOOIronpmASTM D5185>800252335ChromiumpmASTM D5185>5<1OONickelpmASTM D5185>5<10ONickelpmASTM D5185>5<10OSilverpmASTM D5185>53<11LeadpmASTM D5185>703<11CopperpmASTM D5185>70210<1VanadiumpmASTM D5185>70210<1VanadiumpmASTM D5185>40NONENONENONEVellow Metalscalar"VisualNONENONENONENONEVellow Metalscalar"VisualNONENONENONENONESiliconpmASTM D5185>40NONENONENONESiliconpmASTM D5185NONENONE<	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient InfoImageSequenceSequenceSequenceOil AgehrsClient InfoOOOOOil ChangedClient InfoChangedOil AddeedOil AddeedOil AddeedFilter ChangedImageClient InfoN/AN/AN/AN/ASample StatusClient InfoN/AN/AN/AN/AIronppmASTM DS185m>8002523335ChromiumppmASTM DS185m>50<10ONickelppmASTM DS185m>51<100NickelppmASTM DS185m>52000AluminumppmASTM DS185m>753<111LeadppmASTM DS185m>753<111LeadppmASTM DS185m>753<111VanadiumppmASTM DS185m>753<111VanadiumppmASTM DS185m>753<111VanadiumppmASTM DS185m>763<111VanadiumppmASTM DS185m>763<111VanadiumppmASTM DS185m>763<110<11VanadiumppmASTM DS185m>763<110<11VanadiumppmASTM DS185m>763<1100Siliconppm <td< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>PCA0086625</th><th>PCA0086252</th><th>PCA0084256</th></td<>	Sample Number		Client Info		PCA0086625	PCA0086252	PCA0084256
Oil AgehrsClient InfoImage1340988Filter AgehrsClient Info0000Oil ChangedClient InfoNAN/AN/ASample StatusClient InfoN/AN/AN/AIronppmASTM D5185>8002523335ChromiumppmASTM D5185>50<100NickelppmASTM D5185>5<100NickelppmASTM D5185>5<100SilverppmASTM D5185>2000AluminumppmASTM D5185>753<111LeadppmASTM D5185>753<111LeadppmASTM D5185>753<111TinppmASTM D5185>753<111VanduimppmASTM D5185>610<11VisualNONENONENONENONENONENONESiliconppmASTM D5185>20100VaterVisualNONENONENONENONENONESiliconppmASTM D5185>20100VaterVisualNONENONENONENONENONESiliconppmASTM D5185>20100Quadratiscalar'VisualNONENONENONE <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>29 Mar 2024</th> <th>26 Oct 2023</th> <th>25 Aug 2023</th>	Sample Date		Client Info		29 Mar 2024	26 Oct 2023	25 Aug 2023
Filter AgehrsClient Info000Oil ChangedClient InfoChangedOil AddedOil AddedOil AddedFilter ChangedClient InfoN/AN/AN/AN/ASample StatusATTENTIONNORMALNORMALNORMALIronppmASTM D5185m>800252335ChromiumppmASTM D5185m>10<100NickelppmASTM D5185m>5<100NickelppmASTM D5185m>5<100SilverppmASTM D5185m>753<111LeadppmASTM D5185m>753<11LeadppmASTM D5185m>752<11TinppmASTM D5185m>753<10<1VanadiumppmASTM D5185m>8<10<1VanadiumppmASTM D5185m>2010<1Vellow Metalscalar"VisualNONENONENONENONESiliconppmASTM D5185m>400817200PotassiumppmASTM D5185m>40081720PotassiumppmASTM D5185m>20100SiliconppmASTM D5185m>40081720PotassiumppmASTM D5185m>20100 <t< th=""><th>Machine Age</th><th>hrs</th><th>Client Info</th><th></th><th>29240</th><th>28435</th><th>28083</th></t<>	Machine Age	hrs	Client Info		29240	28435	28083
Cli Changed Filter ChangedClient InfoChanged NAOil AddedOil AddedOil AddedFilter Changed Sample StatusClient InfoNAN/AN/AN/ASample StatusATTENTIONNORMALNORMALNORMALIronppmASTM D5185m>800252335ChromiumppmASTM D5185m>50<100NickelppmASTM D5185m>55<100NickelppmASTM D5185m>753<11SilverppmASTM D5185m>753<11LeadppmASTM D5185m>752<11TinppmASTM D5185m>752<11VanadiumppmASTM D5185m>762<11VisualNONENONENONENONENONENONEVellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>20100VaterWC Method>02NONENONENONESiliconppmASTM D5185m>40081720PotassiumppmASTM D5185m>20100SiliconppmASTM D5185m>20100SodiumppmASTM D5185m>20NORENORESiliconscalar*VisualNORENORENORE <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>2145</th> <th>1340</th> <th>988</th>	Oil Age	hrs	Client Info		2145	1340	988
Filter ChangedClient InfoNAN/AN/ASample StatusClient InfoATTENTIONNORMALNORMALIronppmASTM D5185m>800252.335ChromiumppmASTM D5185m>10<100NickelppmASTM D5185m>5<100NickelppmASTM D5185m>5<100SilverppmASTM D5185m>2000AluminumppmASTM D5185m>2000AluminumppmASTM D5185m>753<11LeadppmASTM D5185m>752<11TinppmASTM D5185m>8<10<1VanadiumppmASTM D5185m>8<10<1VanadiumppmASTM D5185m>8<10<1Vendoscalar*VisualNONENONENONENONEVellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>20100WaterVisualNONENONENONENONENONESiliconppmASTM D5185m>20100WaterVisualNONENONENONENONENONESoliconppmASTM D5185m>2010NONESoliconppmA	Filter Age	hrs	Client Info		0	0	0
Sample StatusATTENTIONNORMALNORMALIronppmASTM D5185m>800252.3335ChromiumppmASTM D5185m>10<100NickelppmASTM D5185m>5<100TitaniumppmASTM D5185m>15<100SilverppmASTM D5185m>15<100AluminumppmASTM D5185m>10<100CopperppmASTM D5185m>752<11LeadppmASTM D5185m>752<11YanadiumppmASTM D5185m>752<11TinppmASTM D5185m>8<10<1VanadiumppmASTM D5185m>8<10<1VanadiumppmASTM D5185m>40081720Yellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185m>40081720PotassiumppmASTM D5185m>20100WatervisualNONENONENONENONESiliconppmASTM D5185m>40081720PotassiumppmASTM D5185m>2010NONESand/Dirtscalar'VisualNORENORENONENONEAppearancescalar	Oil Changed		Client Info		Changed	Oil Added	Oil Added
Iron ppm ASTM D5185m >800 25 2.33 35 Chromium ppm ASTM D5185m >10 <1 0 0 Nickel ppm ASTM D5185m >5 <1 0 0 Titanium ppm ASTM D5185m >5 <1 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >10 <1 0 0 1 Vanadium ppm ASTM D5185m >10 <1 0 <1 0 1 Vanadium ppm ASTM D5185m >400 RORE NONE	Filter Changed		Client Info		N/A	N/A	N/A
Chromium ppm ASTM D5185m >10 <1	Sample Status				ATTENTION	NORMAL	NORMAL
Chromium ppm ASTM D5185m >10 <1				000	05	00	05
NickelppmASTM D5185m>5<1	-						
Titanium ppm ASTM D5185m >15 <1							
Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >75 3 <1							
Aluminum ppm ASTM D5185m >75 3 <1							
Lead ppm ASTM D5185m >10 <1							
Copper pp ASTM D5185m >75 2 <1							
Tin ppm ASTM D5185m >8 <1							
VanadiumppmASTM D5185mIII0IIWhite Metalscalar*VisualNONENONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONENONESiliconppmASTM D5185m>40081720PotassiumppmASTM D5185m>20100WaterWC Method>0.2NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORNORMLNONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLDebrisscalar*VisualNORMLNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m2040BariumppmASTM D5185m010<1ManganeseppmASTM D5185m0<10<1ManganesiumppmASTM D5185m3114123330153361PhosphorusppmASTM D5185m1245							
White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>40081720PotassiumppmASTM D5185m>20100WaterWC Method>0.2NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLSodiumppmASTM D5185m2040BariumppmASTM D5185m010<1ManganeseppmASTM D5185m0<10<1ManganeseppmASTM D5185m3114123330153361PhosphorusppmASTM D5185m124573611611194SulfurppmASTM D5185m124573611611194				>8			
Yellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>40081720PotassiumppmASTM D5185m>20100WaterWC Method>0.2NEGNEGNEGSiltscalar*VisualNONENONENONENEGDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m2040BariumppmASTM D5185m010<1ManganeseppmASTM D5185m0<10<1MagnesiumppmASTM D5185m3114<123330153361PhosphorusppmASTM D5185m1099<574955972ZincppmASTM D5185m1245<73611611194SulfurppmASTM D5185m7086<199641274560		ppm	ASTM D5185m		<1		<1
SiliconppmASTM D5185m>40081720PotassiumppmASTM D5185m>20100WaterWC Method>0.2NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLBoronppmASTM D5185m20132BoronppmASTM D5185m0100MalganeseppmASTM D5185m0<1	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 1 0 0 Water WC Method >0.2 NEG NEG NEG NEG Silt scalar *Visual NONE NONE NONE NONE NONE LIGHT Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORM NORML NO	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
WaterWC Method>0.2NEGNEGNEGSiltscalar*VisualNONENONENONELIGHTDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGNEGSodiumppmASTM D5185m20400101BariumppmASTM D5185m010<1114141414MagnesiumppmASTM D5185m010<11141	Silicon	ppm	ASTM D5185m	>400	8	17	20
Siltscalar*VisualNONENONENONELIGHTDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGNEGSodiumppmASTM D5185m20400100BoronppmASTM D5185m01001010111 <td< th=""><th>Potassium</th><th>ppm</th><th>ASTM D5185m</th><th>>20</th><th>1</th><th>0</th><th>0</th></td<>	Potassium	ppm	ASTM D5185m	>20	1	0	0
Debrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m2040BaronppmASTM D5185m010<1MalganeseppmASTM D5185m0<10<1MagnesiumppmASTM D5185m31140123330153361PhosphorusppmASTM D5185m1099574955972ZincppmASTM D5185m124573611611194SulfurppmASTM D5185m7086199641274560	Water		WC Method	>0.2	NEG	NEG	NEG
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m2040BariumppmASTM D5185m010<1MalganeseppmASTM D5185m0<10<1MagnesiumppmASTM D5185m971414CalciumppmASTM D5185m3114<123330153361PhosphorusppmASTM D5185m1099574955972ZincppmASTM D5185m708611611194SulfurppmASTM D5185m7086199641274560	Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
Appearancescalar*VisualNORML<	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m132BoronppmASTM D5185m2040BariumppmASTM D5185m0100MolybdenumppmASTM D5185m0<10<1ManganeseppmASTM D5185m0<10<1MagnesiumppmASTM D5185m971414CalciumppmASTM D5185m3114<123330153361PhosphorusppmASTM D5185m1099574955972ZincppmASTM D5185m1245<73611611194SulfurppmASTM D5185m7086<199641274560	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m132BoronppmASTM D5185m2040BariumppmASTM D5185m0100MolybdenumppmASTM D5185m0<10<1ManganeseppmASTM D5185m0<10<1MagnesiumppmASTM D5185m971414CalciumppmASTM D5185m3114<123330153361PhosphorusppmASTM D5185m1099<574955972ZincppmASTM D5185m1245<73611611194SulfurppmASTM D5185m7086<199641274560	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium ppm ASTM D5185m 1 3 2 Boron ppm ASTM D5185m 2 0 4 0 Barium ppm ASTM D5185m 0 1 0 0 Barium ppm ASTM D5185m 0 1 0 0 Molybdenum ppm ASTM D5185m 0 <1 0 <1 Manganese ppm ASTM D5185m 0 <1 0 <1 Magnesium ppm ASTM D5185m 0 <1 0 <1 Calcium ppm ASTM D5185m 9 7 14 14 Phosphorus ppm ASTM D5185m 3114 1233 3015 3361 Phosphorus ppm ASTM D5185m 1099 574 955 972 Zinc ppm ASTM D5185m 1245 736 1161 1194 Sulfur ppm ASTM D5185m 7086 1996 4127	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron ppm ASTM D5185m 2 0 4 0 Barium ppm ASTM D5185m 0 1 0 0 Molybdenum ppm ASTM D5185m 0 <1 0 <1 Manganese ppm ASTM D5185m 0 <1 0 <1 Magnesium ppm ASTM D5185m 9 7 14 14 Calcium ppm ASTM D5185m 3114 •1233 3015 3361 Phosphorus ppm ASTM D5185m 1099 •574 955 972 Zinc ppm ASTM D5185m 1245 •736 1161 1194 Sulfur ppm ASTM D5185m 7086 •1996 4127 4560	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Barium ppm ASTM D5185m 0 1 0 0 Molybdenum ppm ASTM D5185m 0 <1	Sodium	ppm	ASTM D5185m		1	3	2
Molybdenum ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m	2	0	4	0
Manganese ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m	0	1	0	0
Magnesium ppm ASTM D5185m 9 7 14 14 Calcium ppm ASTM D5185m 3114 1233 3015 3361 Phosphorus ppm ASTM D5185m 1099 574 955 972 Zinc ppm ASTM D5185m 1245 736 1161 1194 Sulfur ppm ASTM D5185m 7086 1996 4127 4560	Molybdenum	ppm	ASTM D5185m	0	<1	0	<1
Calcium ppm ASTM D5185m 3114 1233 3015 3361 Phosphorus ppm ASTM D5185m 1099 574 955 972 Zinc ppm ASTM D5185m 1245 6736 1161 1194 Sulfur ppm ASTM D5185m 7086 1996 4127 4560	Manganese	ppm	ASTM D5185m	0	<1	0	<1
Phosphorus ppm ASTM D5185m 1099 574 955 972 Zinc ppm ASTM D5185m 1245 736 1161 1194 Sulfur ppm ASTM D5185m 7086 1996 4127 4560	Magnesium	ppm	ASTM D5185m	9	7	14	14
Zinc ppm ASTM D5185m 1245 736 1161 1194 Sulfur ppm ASTM D5185m 7086 1996 4127 4560	Calcium	ppm	ASTM D5185m	3114	1233	3015	3361
Sulfur ppm ASTM D5185m 7086 1996 4127 4560	Phosphorus	ppm	ASTM D5185m	1099	5 74	955	972
	Zinc	ppm	ASTM D5185m	1245	7 36	1161	1194
	Sulfur	ppm	ASTM D5185m	7086	e 1996	4127	4560
	Visc @ 40°C	cSt	ASTM D445		88.6	169	175







Kemp Quarries - Pryor Stone - Pryor Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 1050 E 520 Rd Sample No. : PCA0086625 Received : 15 Apr 2024 Lab Number : 06149094 Pryor, OK Tested : 16 Apr 2024 : 17 Apr 2024 - Sean Felton US 74361 Unique Number : 10979172 Diagnosed Test Package : MOB 1 Contact: Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. pryor@pryorstone.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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