

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

[68978] Machine Id OHT101

Component Rear 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)

WEAR

All component wear rates are normal.

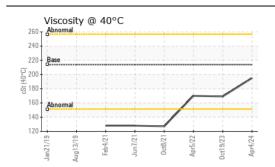
CONTAMINATION

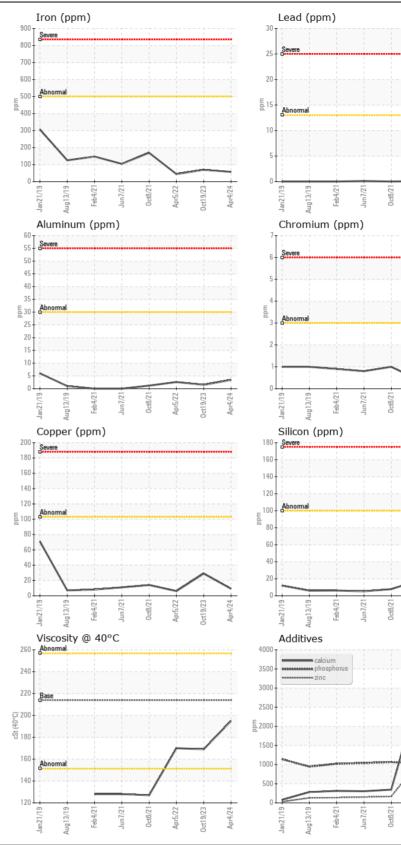
There is no indication of any contamination in the oil.

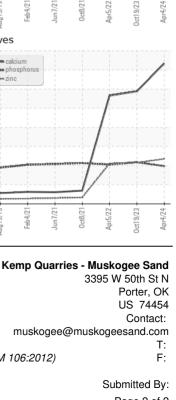
FLUID CONDITION

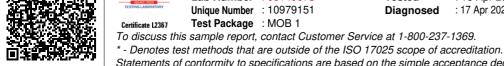
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0109221	PCA0084717	PCA0062665
Sample Date		Client Info		04 Apr 2024	19 Oct 2023	05 Apr 2022
Machine Age	hrs	Client Info		17749	17273	16935
Oil Age	hrs	Client Info		17749	17273	16717
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron		ASTM D5185m	>500	57	69	44
Chromium	ppm	ASTM D5185m	>300	57 1	<1	<1
Nickel	ppm	ASTM D5185m	>3	י <1	<1	0
	ppm	ASTM D5185m	>2	<1		<1
Titanium Silver	ppm	ASTM D5185m	>2		<1 0	0
	ppm			0		
Aluminum	ppm	ASTM D5185m	>30	3	2	3
Lead	ppm	ASTM D5185m	>13	<1	0	<1
Copper	ppm	ASTM D5185m	>103	9	29	6
Tin	ppm	ASTM D5185m	>5	1	2	<1
Vanadium	ppm	ASTM D5185m	NONE	<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>100	26	35	18
Potassium	ppm	ASTM D5185m	>20	2	1	2
Potassium Water			>20 >.2	-		
		ASTM D5185m		2	1	2
Water	ppm	ASTM D5185m WC Method	>.2	2 NEG	1 NEG	2 NEG
Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>.2 NONE	2 NEG NONE	1 NEG NONE	2 NEG NONE
Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>.2 NONE NONE	2 NEG NONE NONE	1 NEG NONE NONE	2 NEG NONE NONE
Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>.2 NONE NONE NONE	2 NEG NONE NONE NONE	1 NEG NONE NONE	2 NEG NONE NONE
Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>.2 NONE NONE NORE	2 NEG NONE NONE NORE	1 NEG NONE NONE NONE NORML	2 NEG NONE NONE NONE NORML
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>.2 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML NEG	1 NEG NONE NONE NORML NORML NEG	2 NEG NONE NONE NORML NORML NEG
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>.2 NONE NONE NORML NORML >.2	2 NEG NONE NONE NORML NORML NEG	1 NEG NONE NONE NORML NORML NEG 4	2 NEG NONE NONE NORML NORML NEG
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>.2 NONE NONE NORML NORML >.2	2 NEG NONE NONE NORML NORML NEG 1 5	1 NEG NONE NONE NORML NORML NEG 4	2 NEG NONE NONE NORML NORML NEG 1 38
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>.2 NONE NONE NORML NORML >.2 2 0	2 NEG NONE NONE NORML NORML NEG 1 5 1	1 NEG NONE NONE NORML NORML NEG 4 45 19	2 NEG NONE NONE NORML NORML NEG 1 38 0
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>.2 NONE NONE NORML NORML >.2 2 0 0	2 NEG NONE NONE NORML NORML NEG 1 5 1 8	1 NEG NONE NONE NORML NORML NEG 4 45 19 6	2 NEG NONE NONE NORML NORML NEG 1 38 0 4
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>.2 NONE NONE NORML NORML >.2 2 0 0 0	2 NEG NONE NONE NORML NORML NEG 1 5 1 8 1	1 NEG NONE NONE NORML NORML NEG 4 45 19 6 1	2 NEG NONE NONE NORML NORML NEG 1 38 0 4 <1
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>.2 NONE NONE NORML NORML >.2 2 0 0 0 0 9	2 NEG NONE NONE NORML NORML NEG 1 5 1 5 1 8 1 1 8 1 1 8	1 NEG NONE NONE NORML NORML NEG 4 45 19 6 1 13	2 NEG NONE NONE NORML NORML NEG 1 38 0 4 <1 13
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >.2 NONE NONE NORML >.2 2 0 0 0 9 3114 	2 NEG NONE NONE NORML NORML NEG 1 5 1 8 1 8 1 1 8 1 1 8 3668	1 NEG NONE NONE NORML NORML NEG 4 45 19 6 1 13 2941	2 NEG NONE NONE NORML NORML NEG 1 38 0 4 <1 13 2828
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >.2 NONE NONE NORML >.2 2 0 0 9 3114 1099 	2 NEG NONE NONE NORML NORML NEG 1 5 1 8 1 1 8 1 1 8 1 1 8 3668	1 NEG NONE NONE NORML NORML NEG 4 45 19 6 1 13 2941 1086	2 NEG NONE NONE NORML NORML NEG 1 38 0 4 <1 13 2828 1027
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >.2 NONE NORML NORML >.2 2 0 0 9 3114 1099 1245 	2 NEG NONE NONE NORML NORML NEG 1 5 1 8 1 1 8 1 1 8 1 1 8 3668 986 1173	1 NEG NONE NONE NORML NORML NEG 4 45 19 6 1 13 2941 1086 1075	2 NEG NONE NONE NORML NORML NEG 1 38 0 4 <1 13 2828 1027 1055
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >.2 NONE NONE NORML >.2 2 0 0 9 3114 1099 	2 NEG NONE NONE NORML NORML NEG 1 5 1 8 1 1 8 1 1 8 1 1 8 3668	1 NEG NONE NONE NORML NORML NEG 4 45 19 6 1 13 2941 1086	2 NEG NONE NONE NORML NORML NEG 1 38 0 4 <1 13 2828 1027









Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: KEMPOR [WUSCAR] 06149073 (Generated: 04/17/2024 14:18:12) Rev: 1

Lab Number : 06149073

Unique Number : 10979151

Test Package : MOB 1

: PCA0109221

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

Received

Diagnosed

Tested

: 15 Apr 2024

: 16 Apr 2024

: 17 Apr 2024 - Sean Felton

Laboratory

Sample No.

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Oct19/23

Apr5/22

or5/77

Apr4/24

Apr4/24