

OIL ANALYSIS REPORT

Area KEMP QUARRIES / KEMP STONE - FAIRLAND [62857] Machine Id CRN014 Component

Front Right Final Drive

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: PM-1 sampled fluid)

🔺 Wear

The copper level is abnormal. All other 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 Number Client Info PCA0087024 PCA0087024 PCA0034287 PCA304090 Sample Date Client Info 31 Oct 2023 13 Apr 2022 18 Nov 201 Machine Age hrs Client Info 1374 1150 324 Dil Changed hrs Client Info 1374 0 0 Dil Changed Client Info NA Changed N/A Sample Status method Imit/base current history1 history1 Torn ppm ASTM 05185m >00 61 224 198 Shornium ppm ASTM 05185m >10 0 <1 0 Silver ppm ASTM 05185m 0 <11 0 0 Silver ppm ASTM 05185m >25 9 47 52 0 35 Silver ppm ASTM 05185m >26 7 4 50 53 50 68 573 9 31 11 1 </th <th> GAL)</th> <th></th> <th>Dec2015</th> <th>Aug2017</th> <th>Nov2019 Apr2022</th> <th>0ct2023</th> <th></th>	GAL)		Dec2015	Aug2017	Nov2019 Apr2022	0ct2023	
Sample Date Client Info 31 Oct 2023 13 Apr 2022 18 Nov 201 Machine Age hrs Client Info 1374 1150 324 Dil Age hrs Client Info 1374 0 0 0 Sample Status Client Info N/A ABNORMAL SEVERE SEVERE WEAR METALS method limit/base current history1 history1 from ppm ASTM 05185m >500 61 224 198 Okromium ppm ASTM 05185m >10 0 <1 2 Nickel ppm ASTM 05185m >10 0 <1 0 Auminum ppm ASTM 05185m >10 0 <1 0 Vanadium ppm ASTM 05185m >10 <1 8 11 Vanadium ppm ASTM 05185m 0 <1 0 <1 0 Abuntinum ppm ASTM 05185m 0 <1	SAMPLE INFORM		method	limit/base	current	history1	history2
Machine Age hrs Client Info 1374 1150 324 Oil Age hrs Client Info 1374 0 0 0 Oil Changed Client Info N/A Changed N/A Sample Status Imethod Imit/base Current Nickel SEVERE VEAR METALS method Imit/base current Nistory1 Nistory1 Iranium ppm ASTM 05185m >10 0 <1	Sample Number		Client Info		PCA0087024	PCA0034287	PCA3640902
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ron ppm ASTM D5185m >500 61 224 198 Chromium ppm ASTM D5185m >10 0 <1	Sample Status				ABNORMAL	SEVERE	SEVERE
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Titanium ppm ASTM D5185m 0 3 0 Silver ppm ASTM D5185m >25 9 477 52 Lead ppm ASTM D5185m >25 9 477 52 Lead ppm ASTM D5185m >25 7 50 35 Copper ppm ASTM D5185m >50 683 573 389 Tin ppm ASTM D5185m >10 <1	Chromium	ppm	ASTM D5185m	>10	0	5	4
Silver ppm ASTM D5185m 0 <1 0 Aluminum ppm ASTM D5185m >25 9 ▲ 47 52 Lead ppm ASTM D5185m >50 ▲ 68 \$73 369 Tin ppm ASTM D5185m >50 ▲ 68 \$73 369 Vanadium ppm ASTM D5185m >10 <1	Nickel	ppm	ASTM D5185m	>10	0	<1	2
Aluminum ppm ASTM D5185m >25 9 ▲ 47 52 Lead ppm ASTM D5185m >25 7 ▲ 50 35 Copper ppm ASTM D5185m >50 ▲ 68 573 ● 369 Tin ppm ASTM D5185m >10 <1	Titanium	ppm	ASTM D5185m		0	3	0
Lead ppm ASTM D5185m >25 7 ▲ 50 35 Copper ppm ASTM D5185m >50 ▲ 68 ● 573 ● 369 Tin ppm ASTM D5185m >10 <1	Silver	ppm	ASTM D5185m		0	<1	0
Copper ppm ASTM D5185m >50 68 573 9369 Tin ppm ASTM D5185m >10 <1	Aluminum	ppm	ASTM D5185m	>25	9	4 7	52
Tin ppm ASTM D5185m >10 <1 8 11 Vanadium ppm ASTM D5185m 0 <1	Lead	ppm	ASTM D5185m	>25	7	5 0	35
Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 <1	Copper	ppm	ASTM D5185m	>50	<u> </u>	• 573	9 369
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Boron ppm ASTM D5185m 2 212 70 46 Barium ppm ASTM D5185m 0 0 0 2 2 Molybdenum ppm ASTM D5185m 0 0 0 2 2 Magnese ppm ASTM D5185m 0 <1 4 0 Magnesium ppm ASTM D5185m 9 3 31 26 Calcium ppm ASTM D5185m 9 3 31 26 Calcium ppm ASTM D5185m 1099 972 985 786 Zinc ppm ASTM D5185m 1099 972 985 786 Sulfur ppm ASTM D5185m 7086 20041 14726 CONTAMINATS method limit/base current history1 history1 Solicon ppm ASTM D5185m >20 3 13 19 VISUAL method limit/base	Cadmium	ppm	ASTM D5185m		0	<1	0
Barium ppm ASTM D5185m 0 0 0 0 2 Molybdenum ppm ASTM D5185m 0 0 2 2 Manganese ppm ASTM D5185m 0 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 0 2 2 Manganese ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m	2	212	70	46
MarganeseppmASTM D5185m0<140MagnesiumppmASTM D5185m933126CalciumppmASTM D5185m311417715601227PhosphorusppmASTM D5185m1099972985786ZincppmASTM D5185m124589588448SulfurppmASTM D5185m124589588448SulfurppmASTM D5185m70862004114726CONTAMINANTSmethodlimit/basecurrenthistory1historySiliconppmASTM D5185m>7556237284SodiumppmASTM D5185m21110PotassiumppmASTM D5185m>2031319VISUALmethodlimit/basecurrenthistory1history1White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONENONESiltscalar*VisualNONENONESod/Diritscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLAppearancescalar*VisualNORMLNORML<	Barium	ppm	ASTM D5185m	0	0	0	2
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VISUALmethodlimit/basecurrenthistory1history1White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONELIGHTDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGFree Waterscalar*VisualNORMLNEGFLUID PROPERTIESmethodlimit/basecurrenthistory1historyVisc @ 40°CcStASTM D445213.9148261	Sodium	ppm	ASTM D5185m		2	11	10
White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONELIGHTDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLFree Waterscalar*Visual>0.2NEGNEGFLUID PROPERTIESmethodlimit/basecurrenthistory1historyVisc @ 40°CcStASTM D445213.9148261	Potassium	ppm	ASTM D5185m	>20	3	13	19
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONELIGHTDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGFLUID PROPERTIESmethodlimit/basecurrenthistory1historyVisc @ 40°CcStASTM D445213.9148261	VISUAL		method	limit/base	current	history1	history2
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Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGFree Waterscalar*VisualImit/basecurrenthistory1historyVisc @ 40°CcStASTM D445213.9148261	Silt	scalar	*Visual	NONE	NONE	LIGHT	
Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGFree Waterscalar*VisualImit/basecurrenthistory1historyVisc @ 40°CcStASTM D445213.9148261	Debris	scalar	*Visual	NONE	NONE	NONE	
Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Image: scalar *Visual NORML NORML NORML Image: scalar *Visual >0.2 NEG NEG Image: scalar *Visual NEG Image: scalar *Visual NEG Image: scalar *Image: scalar *Visual Image: scalar *Image: sc	Sand/Dirt	scalar		NONE	NONE		
Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG Free Water scalar *Visual O NEG NEG FLUID PROPERTIES method limit/base current history1 history Visc @ 40°C cSt ASTM D445 213.9 148 261	Appearance	scalar	*Visual	NORML		NORML	
Emulsified Water scalar *Visual >0.2 NEG NEG Free Water scalar *Visual Image: scalar *Visual NEG NEG FLUID PROPERTIES method limit/base current history1 history Visc @ 40°C cSt ASTM D445 213.9 148 261	••				NORML		
Free Water scalar *Visual NEG NEG FLUID PROPERTIES method limit/base current history1 history1 Visc @ 40°C cSt ASTM D445 213.9 148 261	Emulsified Water						
Visc @ 40°C cSt ASTM D445 213.9 148 261	Free Water	scalar	*Visual			NEG	
-	FLUID PROPE	RTIES	method	limit/base	current	history1	history2
16:06) Rev: 1 Submitted	Visc @ 40°C	cSt	ASTM D445	213.9	148	261	
	:16:06) Rev: 1						Submitted By

Sample Rating Trend

WEAR

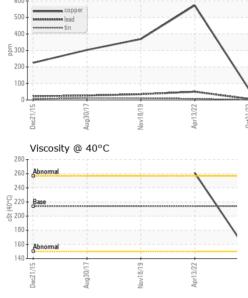
Report Id: KEMFAI [WUSCAR] 06006599 (Generated: 11/15/2023 20:16:06) Rev: 1

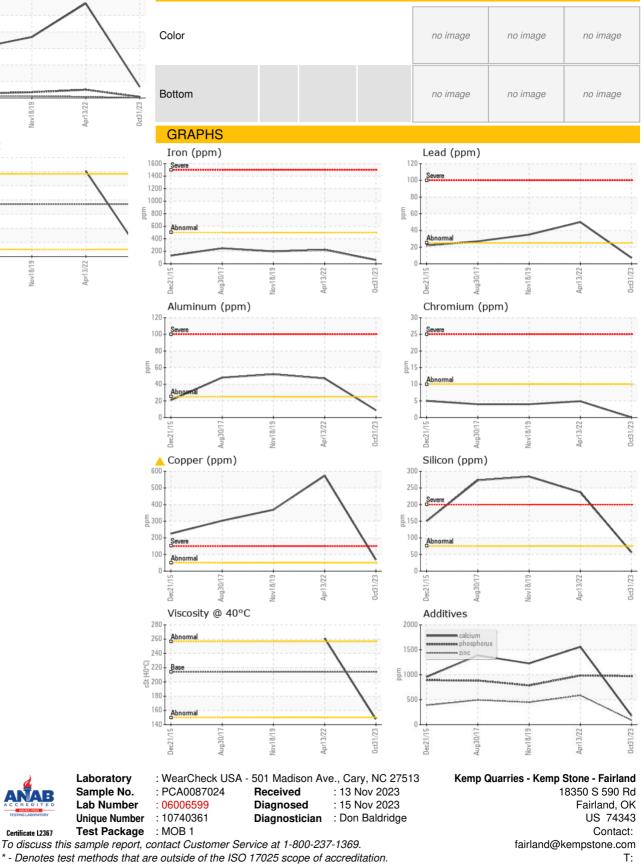


OIL ANALYSIS REPORT

SAMPLE IMAGES







limit/base

current

history1

history2

method

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

Certificate L2367

F: