

OIL ANALYSIS REPORT

Sample Rating Trend





KEMP QUARRIES / BCS - MILL CREEK [66781] TTT008 Component

Rear Left Final Drive

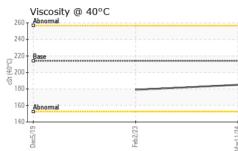
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

DLAGNOSIS SAMPLE INFORMATION method imitabase current history1 Resample at he next service interval to monitor. (Customer Sample Comment: PM-1 sampled fluid) Sample Date Client Info 11 Method Method NORMAL NORMAL <th <="" colspan="2" th=""><th></th><th>14</th><th>Feb2023 Mar2024</th><th>2019</th><th>Dec</th><th> GAL)</th><th>JAU 10-4 JAE 30 (</th><th>PETRO CANADA PROD</th></th>	<th></th> <th>14</th> <th>Feb2023 Mar2024</th> <th>2019</th> <th>Dec</th> <th> GAL)</th> <th>JAU 10-4 JAE 30 (</th> <th>PETRO CANADA PROD</th>			14	Feb2023 Mar2024	2019	Dec	GAL)	JAU 10-4 JAE 30 (PETRO CANADA PROD
Breample at the next service interval to monitor. Sample Date Client Info 11 Mar 2024 02 Feb 2023 War Machine Age hrs Client Info 7033 6859 All component wear rates are normal. Contamination N/A Changed Contamination Nice is no indication of any contamination in the oil. Nore Client Info N/A Changed Pial Condition The condition of the oil is acceptable for the time in service. Note Mark Nore Mark NORE Net Nore Nore Nore Nore Net Nore Net Nore Net Nore Net Nore Net Nore Net	history2	history1	current	limit/base	method	MATION	SAMPLE INFOF	DIAGNOSIS		
Customer Sample Comment: PM-1 sampled fluid) Machine Age hrs Client Info 7033 6859 Wear Oil Age hrs Client Info 7033 6859 Normaniation Thare is no indication of any contamination in the jl. NorMAL NorMAL NorMAL Fluid Condition The condition of the oil is acceptable for the time is arvice. Total fluid flu	PCA4622801	PCA0086697	PCA0108980		Client Info		Sample Number	ecommendation		
Vera Nature 100 materials of the init of the ininit of the ininit of the init of the init of the init of	05 Dec 2019	02 Feb 2023	11 Mar 2024		Client Info		Sample Date			
I component wear rates are normal. Oil Changed Client Into N/A Changed sample Status I I NORMAL NORMAL sample Status I I Normal. NORMAL uid Condition ete condition of the oil is acceptable for the time in rorce. WEAR METALS method ImitUbase current history1 Iron ppm ASTM 05155m >0 3 43 Chromium ppm ASTM 05155m >5 <1	6341	6859	7033		Client Info	hrs	Machine Age	ustomer Sample Comment: PM-1 sampled fluid)		
Sample Status NORMAL NORMAL uid Condition is no indication of any contamination in the uid Condition of the oil is acceptable for the time in vice. Sample Status Imit/base current history1 Water WC Method >0.2 NEG NEG Wear WC Method >0.2 NEG NEG Iron ppm ASTM DS186n >50.0 33 43 Chromium ppm ASTM DS186n >5 <1	0	6859	7033		Client Info	hrs	Oil Age	ear		
Deterministion of any contamination in the uid condition of the oil is acceptable for the time in rvice. CONTAMINATION method Iunit/base current history1 Water WC Method >0.2 NEG NEG NEG Verant ppm ASTM DS185n >800 33 43 Chromium ppm ASTM DS185n >50 1 <1	N/A	Changed	N/A		Client Info		Oil Changed	l component wear rates are normal.		
uid Condition The condition of the oil is acceptable for the time in rvice. The condition of the oil is acceptable for the time in rvice. The condition of the oil is acceptable for the time in rvice. NEG NEG NEG Iron ppm ASTM D5185m >800 33 43 Chromium ppm ASTM D5185m >10 <1	NORMAL	NORMAL	NORMAL				Sample Status	ontamination		
WEAR METALS method limit/base current history1 Iron ppm ASTM D5185m >800 33 43 Chromium ppm ASTM D5185m >10 <1	history2	history1	current	limit/base	method	ION	CONTAMINAT	-		
Interview Interview <thinterview< th=""> <thinterview< th=""> <thi< td=""><td>NEG</td><td>NEG</td><td>NEG</td><td>>0.2</td><td>WC Method</td><td></td><td>Water</td><td>uid Condition</td></thi<></thinterview<></thinterview<>	NEG	NEG	NEG	>0.2	WC Method		Water	uid Condition		
Chromium ppm ASTM D5185m >10 <1 <1 Nickel ppm ASTM D5185m >5 <1	history2	history1	current	limit/base	method	S	WEAR METAL	•		
Nickel ppm ASTM D5185m >5 <1 0 Titanium ppm ASTM D5185m >15 <1	36	43	33	>800	ASTM D5185m	ppm	Iron			
TitaniumppmASTM 05185m>15<1<1SilverppmASTM 05185m>200AluminumppmASTM 05185m>7541LeadppmASTM 05185m>75<1	0	<1	<1	>10	ASTM D5185m	ppm	Chromium			
Silver ppm ASTM D5185m >2 0 0 Aluminum ppm ASTM D5185m >75 4 1 Lead ppm ASTM D5185m >10 0 0 Copper ppm ASTM D5185m >75 <1	0	0	<1	>5	ASTM D5185m	ppm	Nickel			
Aluminum ppm ASTM D5185m >75 4 1 Lead ppm ASTM D5185m >10 0 0 Copper ppm ASTM D5185m >75 <1	0	<1	<1	>15	ASTM D5185m	ppm	Titanium			
LeadppmASTM D5185m>1000CopperppmASTM D5185m>75<1	0	0	0	>2	ASTM D5185m	ppm	Silver			
CopperppmASTM D5185m>75<13TinppmASTM D5185m>8<1	1	1	4	>75	ASTM D5185m	ppm	Aluminum			
TinppmASTM D5185m>8<10VanadiumppmASTM D5185m00CadmiumppmASTM D5185m00ADDITIVESmethodlimit/basecurrenthistory1BoronppmASTM D5185m200BariumppmASTM D5185m0<1	0	0	0	>10	ASTM D5185m	ppm	Lead			
TinppmASTM D5185m>8<10VanadiumppmASTM D5185m00CadmiumppmASTM D5185m00ADDITIVESmethodlimit/basecurrenthistory1BoronppmASTM D5185m000BariumppmASTM D5185m0<1	0	3	<1	>75	ASTM D5185m		Copper			
VanadiumppmASTM D5185m00CadmiumppmASTM D5185m00ADDITIVESmethodlimit/basecurrenthistory1BoronppmASTM D5185m200BariumppmASTM D5185m000MolybdenumppmASTM D5185m0<1	0									
CadmiumppmASTM D5185m00ADDITIVESmethodlimit/basecurrenthistory1BoronppmASTM D5185m200BariumppmASTM D5185m000MolybdenumppmASTM D5185m0<1	0	0					Vanadium			
BoronppmASTM D5185m200BariumppmASTM D5185m0<	0									
BariumppmASTM D5185m000MolybdenumppmASTM D5185m0<1	history2	history1	current	limit/base	method		ADDITIVES			
MolybdenumppmASTM D5185m0<1<1ManganeseppmASTM D5185m0<1	4	0	0	2	ASTM D5185m	ppm	Boron			
ManganeseppmASTM D5185m0<1<1MagnesiumppmASTM D5185m91514CalciumppmASTM D5185m311429313015PhosphorusppmASTM D5185m109910561013ZincppmASTM D5185m124512591210SulfurppmASTM D5185m708657347882CONTAMINANTSmethodlimit/basecurrenthistory1SiliconppmASTM D5185m>400339SodiumppmASTM D5185m>2032VISUALmethodlimit/basecurrenthistory1White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESititscalar*VisualNONENONENONE	0	0	0	0	ASTM D5185m	ppm	Barium			
ManganeseppmASTM D5185m0<1<1MagnesiumppmASTM D5185m91514CalciumppmASTM D5185m311429313015PhosphorusppmASTM D5185m109910561013ZincppmASTM D5185m124512591210SulfurppmASTM D5185m708657347882CONTAMINANTSmethodlimit/basecurrenthistory1SiliconppmASTM D5185m>400339SodiumppmASTM D5185m>2032VISUALmethodlimit/basecurrenthistory1White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESilitscalar*VisualNONENONENONE	2	<1	<1	0	ASTM D5185m	ppm	Molybdenum			
MagnesiumppmASTM D5185m91514CalciumppmASTM D5185m311429313015PhosphorusppmASTM D5185m109910561013ZincppmASTM D5185m124512591210SulfurppmASTM D5185m708657347882CONTAMINANTSmethodlimit/basecurrenthistory1SiliconppmASTM D5185m>400339SodiumppmASTM D5185m>400339PotassiumppmASTM D5185m>2032VISUALmethodlimit/basecurrenthistory1White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONE	0	<1	<1	0	ASTM D5185m		-			
CalciumppmASTM D5185m311429313015PhosphorusppmASTM D5185m109910561013ZincppmASTM D5185m124512591210SulfurppmASTM D5185m708657347882CONTAMINANTSmethodlimit/basecurrenthistory1SiliconppmASTM D5185m>400339SodiumppmASTM D5185m>400339SodiumppmASTM D5185m>2032VISUALmethodlimit/basecurrenthistory1White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONE	37		15	9	ASTM D5185m		Magnesium			
PhosphorusppmASTM D5185m109910561013ZincppmASTM D5185m124512591210SulfurppmASTM D5185m708657347882CONTAMINANTSmethodlimit/basecurrenthistory1SiliconppmASTM D5185m>400339SodiumppmASTM D5185m>200332VISUALmethodlimit/basecurrenthistory1White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONE	2359						-			
ZincppmASTM D5185m124512591210SulfurppmASTM D5185m708657347882CONTAMINANTSmethodlimit/basecurrenthistory1SiliconppmASTM D5185m>400339SodiumppmASTM D5185m>400339SodiumppmASTM D5185m>2032VISUALmethodlimit/basecurrenthistory1White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONE	971									
SulfurppmASTM D5185m708657347882CONTAMINANTSmethodlimit/basecurrenthistory1SiliconppmASTM D5185m>400339SodiumppmASTM D5185m>40000PotassiumppmASTM D5185m>2032VISUALmethodlimit/basecurrenthistory1White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONE	937									
SiliconppmASTM D5185m>400339SodiumppmASTM D5185m00PotassiumppmASTM D5185m>2032VISUALmethodlimit/basecurrenthistory1White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONE										
SodiumppmASTM D5185m00PotassiumppmASTM D5185m>2032VISUALmethodlimit/basecurrenthistory1White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONE	history2	history1	current	limit/base	method	ITS	CONTAMINAN			
PotassiumppmASTM D5185m>2032VISUALmethodlimit/basecurrenthistory1White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONE	7	9	33	>400	ASTM D5185m	ppm	Silicon			
VISUALmethodlimit/basecurrenthistory1White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONE	1	0	0		ASTM D5185m	ppm	Sodium			
White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONE	0	2	3	>20	ASTM D5185m	ppm	Potassium			
Yellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONE	history2	history1	current	limit/base	method		VISUAL			
Precipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONE		NONE	NONE	NONE	*Visual	scalar	White Metal			
Silt scalar *Visual NONE NONE NONE		NONE	NONE	NONE	*Visual	scalar	Yellow Metal			
		NONE	NONE	NONE	*Visual	scalar	Precipitate			
		NONE	NONE	NONE	*Visual	scalar	Silt			
							Debris			
Sand/Dirt scalar *Visual NONE NONE NONE										
Free Water scalar *Visual NEG				-						
Appearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG		NONE NORML NORML NEG	NONE NORML NORML NEG	NONE NORML NORML	*Visual *Visual *Visual *Visual	scalar scalar scalar scalar	Sand/Dirt Appearance Odor Emulsified Water			





OIL ANALYSIS REPORT



	FLUID PROP	PERTIES m	ethod limit/base	current	history1	history2
	Visc @ 40°C	cSt AST	M D445 213.9	185	179	
	SAMPLE IMA	AGES m	ethod limit/base	current	history1	history2
	Color			no image	no image	no image
Feb2/23 Mar11/24	Bottom			no image	no image	no image
	GRAPHS					
	Iron (ppm)			Lead (ppm)		
	2000 Severe	1		Severe		
	1000			0 -		
	Abnormal		트 1	0 Abnormal		
	500 -			5-		
		Feb2/23	Mar11/24 -	Dec5/19 0	Feb2/23	
			Mar	ے Chromium (p		
	Aluminum (ppm	l)		¹⁰ T	pm)	
	150 -			25 - Severe		
	E 100 - Abnormal		Ē1	5		
	50		1	0 - Abnormal	1	
	0			0		
	Dec5/19	Feb 2/23	Mar11/24	Dec5/19	Feb 2/23	
	Copper (ppm)		2	Silicon (ppm)		
	200 Severe		100	Severe	1	
	150-		8060			
	Land Abnormal		40 40	Abaamal		
	50		20	10 -		
		23	54			
	Dec5/19	Feb 2/23	Mar11/24	Dec5/19	Feb 2/23	
	Viscosity @ 40°	С		Additives		
	240 -		350	(
	220 - Base		250	0 - zinc		
)) 200					
	160 - Abnormal		100			***********************
	140 L	/23		5	/23 + -	
	Dec5/19	Feb2/23	Mar11/24	Dec5/1	Feb2/23	
Unique Numbe	: WearCheck USA - { : PCA0108980 r : 06121838 r : 10935989 - MOR 1	501 Madison Av Received Tested Diagnose	: 18 Mar 2024 : 19 Mar 2024			CS-Mill Cree 609 Lazy E F Noel, M US 648 TRAVIS ELL
sate L2367 Test Package scuss this sample report			07 1000			npquarries.co