

## Machine Id **RIVER QUEST** Component **Port Main Engine** Fluid **PETRO CANADA DURON MARINE SAE 40 (16 GAL)**

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0035980	MW0066780	MW0066816
Sample Date		Client Info		21 May 2024	05 Mar 2024	01 Feb 2024
Machine Age	hrs	Client Info		23849	22791	22291
Oil Age	hrs	Client Info		1058	500	968
Filter Age	hrs	Client Info		1058	500	968
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	maa	ASTM D5185m	>120	6	3	8
						<1
						<1
			20			<1
			<u>\</u> 5			0
						2
						7 2
			>10	-		<1
				-		
						NONE
Yellow Metal	scalar	^Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	1	2	2
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG		NEG
Soot %	%	*ASTM D7844		0.4	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	5.8	4.4	5.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.4	13.7	15.3
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris		*Visual	NONE	NONE	NONE	NONE
Sand/Dirt				NONE	NONE	NONE
Appearance		*Visual		NORML	NORML	NORML
						NORML
Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
Sodium		ASTM D5195m		<b>o</b>	1	0
			1.0			2
						13
						3
•						<1
						882
•						1089
						1112
						1262
						3501
						8.8
Base Number (BN)	mg KOH/g	ASTM D2896	7.9	7.0	6.7	6.7
-	Sample NumberSample DateMachine AgeOil AgeFilter AgeOil ChangedFilter ChangedSample StatusIronChromiumNickelTitaniumSilverAluminumLeadCopperTinVanadiumWhite MetalYellow MetalFuelSulfationSulfationSulfationSiltDebrisSand/DirtAppearanceOdorEmulsified WaterGlocolSodiumAppearanceOdorEmulsified WaterCalciumPhosphorusZincSulfurOxidation	Sample NumberSample DateMachine AgehrsOil AgehrsFilter AgehrsOil ChangedFilter ChangedFilter Changedsample StatusIronppmChromiumppmNickelppmTitaniumppmSilverppmAluminumppmLeadppmTinppmVanadiumppmVanadiumppmVaterscalarSilvcolycSoot %%NitrationAbs/cmSulfationAbs/cmSulfationscalarSoot %scalarSod %scalarSulfationAbs/cmSulfationscalarSodiumppmSiltscalarSodiumppmSodiumppmManganeseppmManganeseppmManganeseppmZincppmSulfurppmSulfurppmMagnesiumppmMaspericeppmSulfurppm	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoSample StatusSample StatusIronppmASTM D5185mNickelppmASTM D5185mNickelppmASTM D5185mAluminumppmASTM D5185mLeadppmASTM D5185mLeadppmASTM D5185mCopperppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mFuelwC MethodWaterwC MethodGiycol%*ASTM D5185mFuelWC MethodSolf%*ASTM D5185mFuelWC MethodSulfationAbs/.1mm*ASTM D7414Siltscalar*VisualSodiumppmASTM D5185mBoronppmASTM D5185mBariumppmASTM D5185mManganeseppmASTM D5185mMagnesiumppmASTM D5185mManganeseppmASTM D5185mCalciumppmASTM D5185mManganeseppmASTM D5185mCalciumppmASTM D5185mSulfurppmASTM D5185mMagnesiumppm	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoMachine AgehrsClient InfoFilter AgehrsClient InfoFilter AgehrsClient InfoFilter ChangedClient InfoSample StatusSample StatusIronppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVellow Metalscalar*VisualNONESiliconppmASTM D5185m>20FuelWC MethodSoot %%*ASTM D7624Soot %%*ASTM D7624SulfationAbs/Imm*ASTM D7154Appearancescalar*VisualNORESand/DirtscalarAppearancescalar*VisualAppearancescalar*VisualAstim D5185m1.0MagnesiumppmASTM D5185mBoronppmASTM D5185mBoronppmASTM D5185m	Sample NumberClient InfoMW0035980Sample DateClient Info21 May 2024Machine AgehrsClient Info1058Filter AgehrsClient Info1058Filter AgehrsClient InfoChangedGil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoChangedIronppmASTM D5185m>10NickelppmASTM D5185m>5OTitaniumppmASTM D5185m>5NickelppmASTM D5185m>50AluminumppmASTM D5185m>00LeadppmASTM D5185m>3000CopperppmASTM D5185m>100VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>200Vellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>200FuelWC Method>.0NONENONESulfationAbs/(nm*ASTM D7624>205.8SulfationAbs/(nm*ASTM D718525.8SulfationAbs/(nm*VisualNONENONEAppearancescalar*VisualNORENONEAppearancescalar*VisualNORENONEAppearancescalar*VisualNORENONEAppearancescalar	Sample Number Client Info MW006780 21 May 2024   Sample Date Client Info 23849 22791   Machine Age hrs Client Info 1058 500   Filter Age hrs Client Info 1058 500   Oil Age hrs Client Info 1058 500   Oil Changed Client Info 1058 500 Changed Changed   Filter Changed Client Info 058 500 0 Changed <t< th=""></t<>

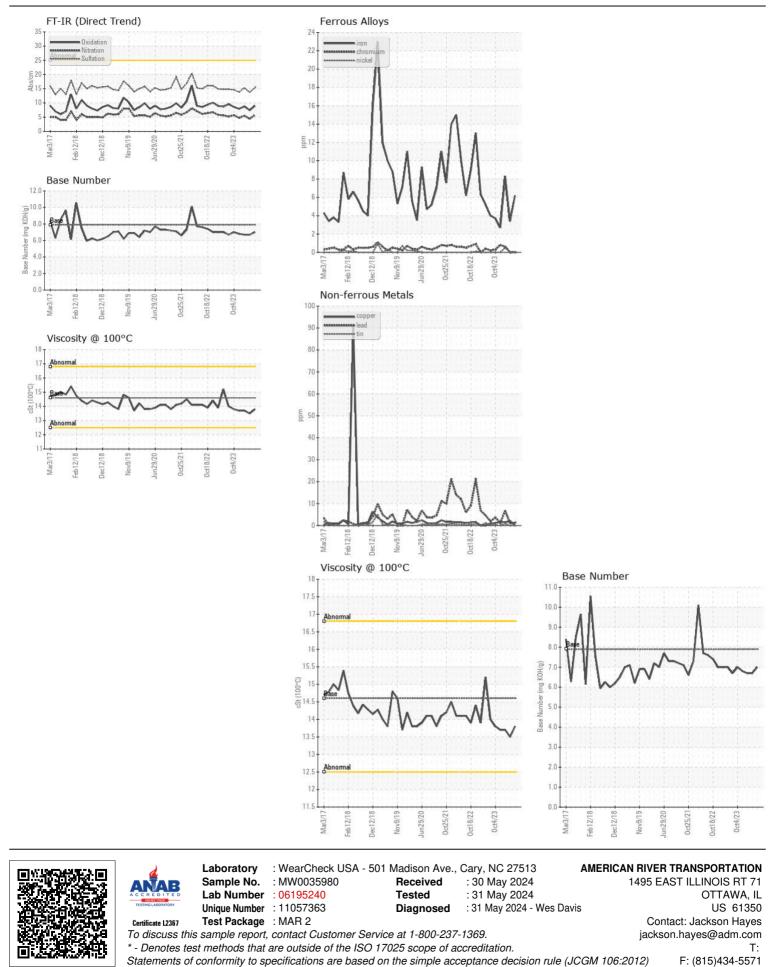
Visc @ 100°C cSt

ASTM D445 14.6

13.5

13.7

13.8



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