

## Machine Id **RIVER QUEST** Component **Port Genset** Filuid **PETRO CANADA DURON MARINE SAE 40 (3 GAL)**

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RECOMMENDATION	Test	UOM	Method	Limit/Abn		History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		MW0035978	MW0066785	MW0066818
	Sample Date	bro	Client Info		21 May 2024	05 Mar 2024	01 Feb 2024
	Machine Age	hrs	Client Info		12892	11988	11592
	Oil Age	hrs	Client Info		904 904	396 396	762 762
	Filter Age Oil Changed	hrs	Client Info Client Info				
	-				Changed	Changed	Changed
	Filter Changed Sample Status		Client Info		Changed NORMAL	Changed NORMAL	Changed NORMAL
	Sample Status				NORMAL	NORIVIAL	NORIVIAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>50	2	3	6
	Chromium	ppm	ASTM D5185m	>4	0	0	<1
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>5	0	0	0
	Aluminum	ppm	ASTM D5185m	>12	0	<1	2
	Lead	ppm	ASTM D5185m		<1	1	4
	Copper	ppm	ASTM D5185m	>70	0	2	<1
	Tin	ppm	ASTM D5185m	>15	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	. 05	3	3	5
	Potassium	ppm	ASTM D5185m		0	0	<1
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.0	5.4	6.3
	Sulfation	Abs/.1mm	*ASTM D7415		16.7	14.7	16.0
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Cadiur					4	
	Sodium	ppm	ASTM D5185m	1.0	<1	<1	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		6	5	11
	Barium	ppm	ASTM D5185m		0	0	13
	Molybdenum	ppm	ASTM D5185m		5	4	10
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		900	955	898
	Calcium	ppm	ASTM D5185m		1111	1133	1100
	Phosphorus	ppm	ASTM D5185m		1098	1222	1069
	Zinc	ppm	ASTM D5185m		1328	1408	1308
	Sulfur	ppm	ASTM D5185m		3317	3779	3323
	Oxidation	Abs/.1mm	*ASTM D7414		11.4	8.8	10.8
	Base Number (BN)	mg KOH/g	ASTM D2896	7.9	7.1	7.0	6.8

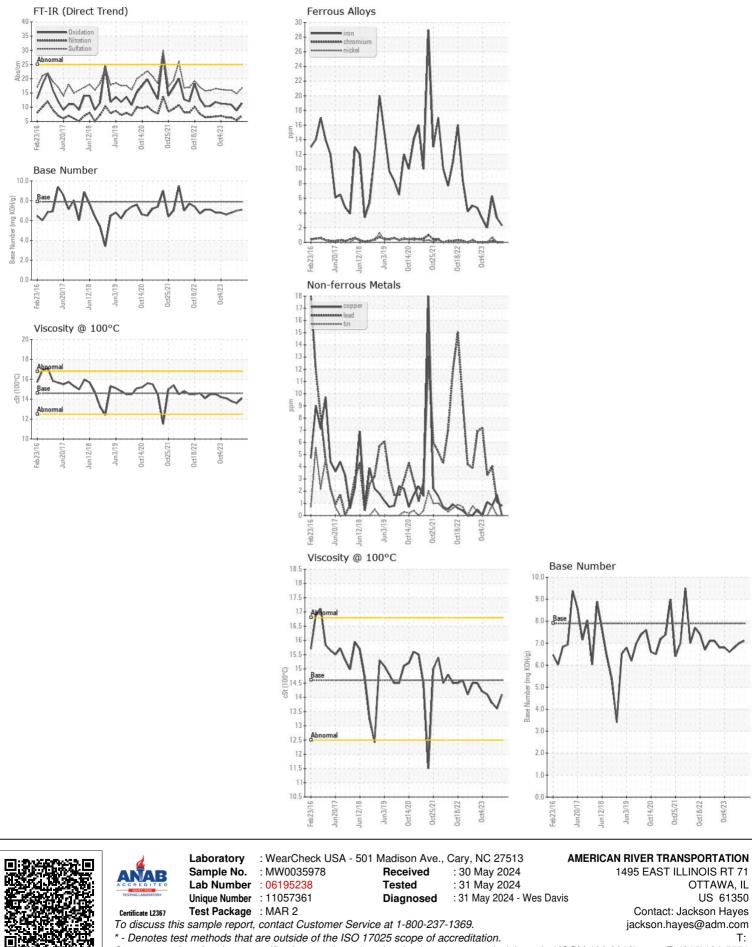
Visc @ 100°C cSt

ASTM D445 14.6

13.6

13.8

14.1



<sup>\* -</sup> Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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