

Machine Id **PRAIRIE MOON** Component **Starboard Main Engine** Filuid **PETRO CANADA DURON MARINE SAE 40 (19 GAL)**

FEITIO GANADA DOTION MATINE SAL 40 (13							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		MWM667199	-	MWM695477
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		22 May 2024	22 Feb 2024	05 Jan 2024
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		800	0	800
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	<u>\75</u>	6	5	0
WEAN	Chromium	ppm	ASTM D5185m	-	0	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		1	<1	1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		۰ <1	<1	<1
	Aluminum	ppm	ASTM D5185m		<1	2	<1
	Lead		ASTM D5185m		2	1	<1
	Copper	ppm ppm	ASTM D5185m		2	2	1
	Tin	ppm	ASTM D5185m		_ <1	1	0
	Vanadium	ppm	ASTM D5185m	214	<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		·····	vioual			HOHL	
CONTAMINATION	Silicon	ppm	ASTM D5185m		2	3	1
There is a high amount of fuel present in the oil.	Potassium	ppm	ASTM D5185m		4	2	0
mere is a high amount of fuel present in the oil.	Fuel	%	ASTM D3524	>4.0	16.3	1 7.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	5.8	4.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	15.3	14.9
	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	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>75	2	0	0
	Boron	ppm	ASTM D5185m	1.0	2	2	0
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m	1.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	1.0	2	5	2
	Manganese	ppm	ASTM D5185m	1	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	15	849	848	929
	Calcium	ppm	ASTM D5185m	2540	907	1031	993
	Phosphorus	ppm	ASTM D5185m	1000	1075	1111	1120
	Zinc	ppm	ASTM D5185m	1110	1257	1257	1391
	Sulfur	ppm	ASTM D5185m	3700	3512	3373	3369
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.5	9.3	9.2
	Base Number (BN)	mg KOH/g	ASTM D2896	7.9	4.0	7.0	6.2
	Vice @ 100°C	~C+	ACTM DAAF	116		A 11 G	10.0

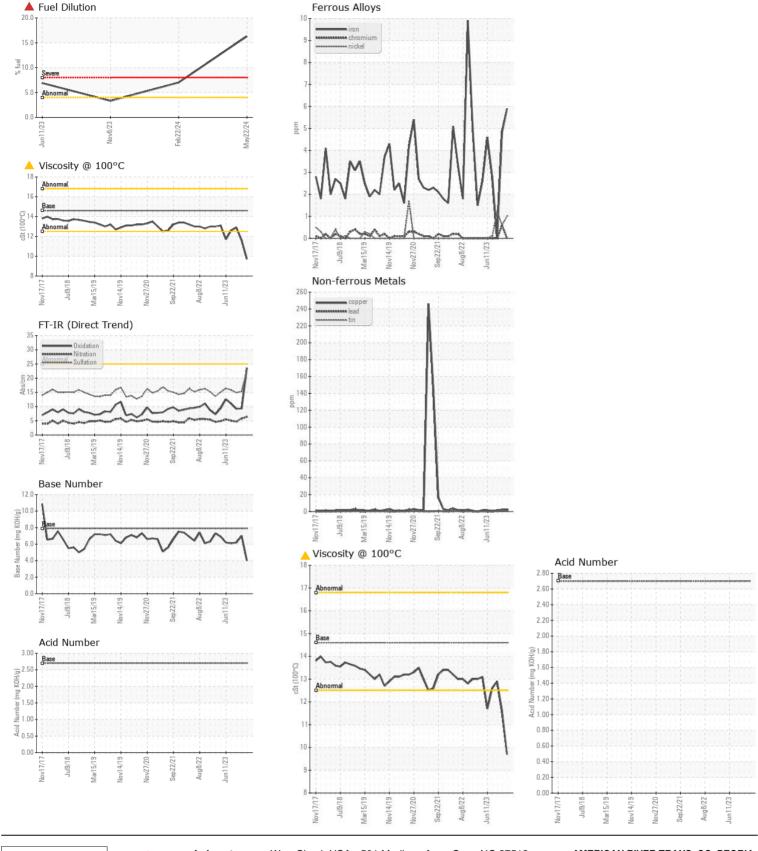
Visc @ 100°C cSt

ASTM D445 14.6

11.6

12.9

9.7



AMERICAN RIVER TRANS. CO. PEORIA Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : MWM667199 Received 534 WESLEY RD : 01 Jul 2024 Lab Number : 06225446 Tested CREVECOEUR, IL : 03 Jul 2024 Unique Number : 11103643 Diagnosed : 03 Jul 2024 - Don Baldridge US 61610 Test Package : MAR 2 (Additional Tests: KV40, PercentFuel, TAN Man) Contact: STEVE BUCCO Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (309)360-3931 F: (309)694-7030

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

Contact/Location: STEVE BUCCO - AMEPEO Page 2 of 2