

## (EQ4229) W

## Corfu Water Treatment Plant Site (S/N 21816661)

Diesel Engine

## PETRO CANADA DURON UHP 5W40 (12 QTS)

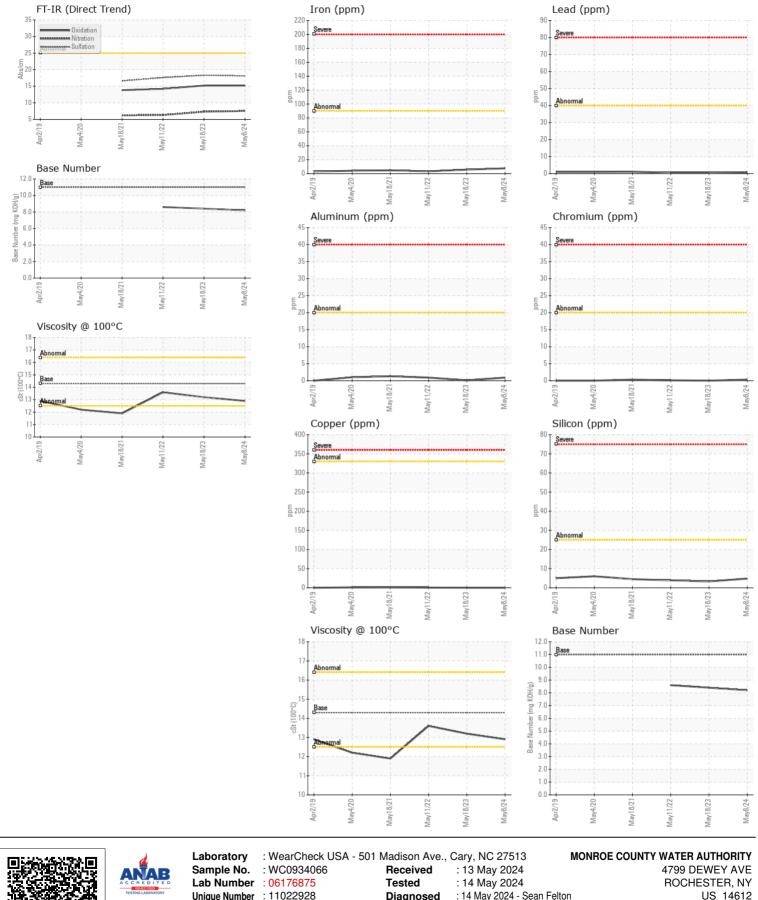
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0934066	WC0810884	WC0696105
	Sample Date		Client Info		08 May 2024	18 May 2023	11 May 2022
	Machine Age	hrs	Client Info		657	627	542
	Oil Age	hrs	Client Info		115	108	0
	Filter Age	hrs	Client Info		0	108	0
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>90	8	6	3
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	>2	40	38	40
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	<1	<1	<1
	Lead	ppm	ASTM D5185m	>40	<1	<1	<1
	Copper	ppm	ASTM D5185m		0	0	<1
	Tin	ppm	ASTM D5185m	>15	0	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	3	4
	Potassium	ppm	ASTM D5185m		1	1	<1
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	1.8
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624		7.5	7.3	6.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	18.3	17.6
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	5	5
	Boron	ppm	ASTM D5185m	65	105	115	117
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		30	28	30
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		829	793	851
	Calcium	ppm	ASTM D5185m		1245	1225	1295
	Phosphorus	ppm	ASTM D5185m		1033	993	1085
	Zinc	ppm	ASTM D5185m		1264	1266	1219
	Sulfur	ppm	ASTM D5185m		4262	4048	3343
	Oxidation	Abs/.1mm	*ASTM D7414		15.2	15.2	14.2
	Base Number (BN)				8.2	8.4	8.6
							0.0

Visc @ 100°C cSt ASTM D445 14.3

13.6

13.2

12.9



 Unique Number
 : 11022928
 Diagnosed
 : 14 May 2024 - Sean Felton

 Certificate L2367
 Test Package
 : MOB 1 (Additional Tests: TBN )

 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.

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

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Submitted By: SCOTT TRAIL Page 2 of 2

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