WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE ABNORMAL

(EQ2072) S

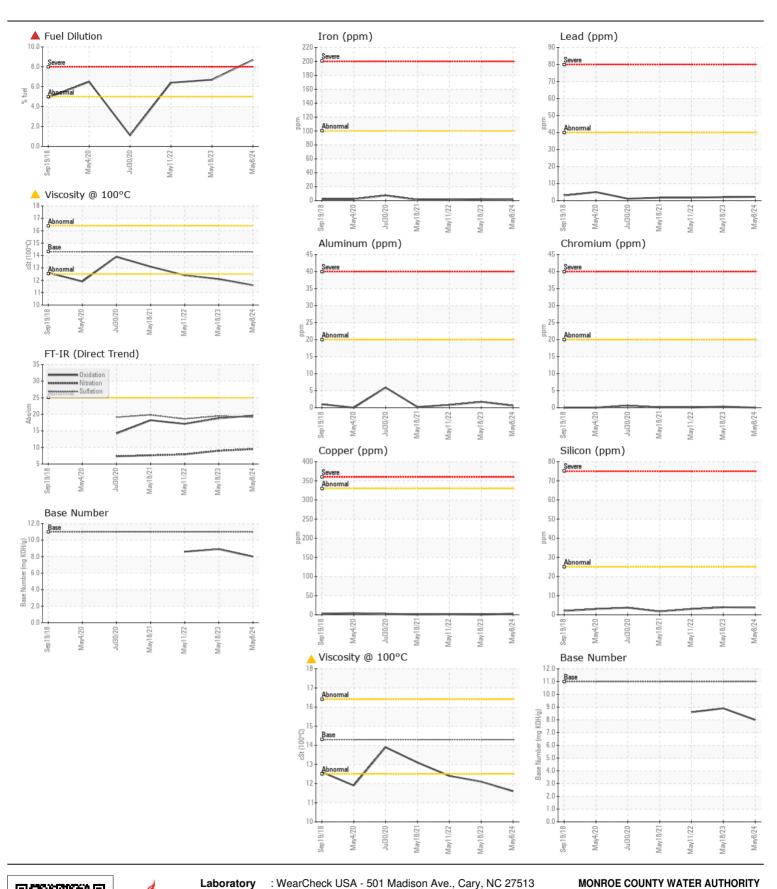
Denise BPS (S/N 662540, 2086454)

Diesel Engine							
PETRO CANADA DURON UHP 5W40 (15 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.	Sample Number	OOW	Client Info	LIIII07 (DII	WC0934071	WC0810889	WC0696110
	Sample Date		Client Info		08 May 2024	18 May 2023	11 May 2022
	Machine Age	hrs	Client Info		490	467	429
	Oil Age	hrs	Client Info		61	77	0
	Filter Age	hrs	Client Info		0	77	0
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	2	2	2
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		9	8	9
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	<1	2	<1
	Lead	ppm	ASTM D5185m	>40	2	2	2
	Copper	ppm	ASTM D5185m	>330	3	<1	2
	Tin	ppm	ASTM D5185m	>15	<1	1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliana		ACTM DE10E	05	4	4	
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	4	3
There is a high amount of fuel present in the oil.	Potassium Fuel	ppm %	ASTM D5185m ASTM D3524		<1 ▲ 8.7	<u>∠</u> 6.7	0 6.4
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\3	0	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.0	7.9
	Sulfation	Abs/.1mm	*ASTM D7415		19.1	19.5	18.6
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	2
	Boron	ppm	ASTM D5185m	65	61	67	71
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	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	65	48	48	48
	Manganese	ppm	ASTM D5185m	0	<1	<1	0
	Magnesium	ppm	ASTM D5185m		957	977	992
	Calcium	ppm	ASTM D5185m		952	943	998
	Phosphorus	ppm	ASTM D5185m		997	1041	1045
	Zinc	ppm		1260	1235	1300	1186
	Sulfur	ppm	ASTM D5185m		3964	4260	3079
	Oxidation	Abs/.1mm	*ASTM D7414		19.6	18.8	17.1
	Base Number (BN)	mg KOH/g	ASTM D2896	11.0	8.0	8.9	8.6

Visc @ 100°C cSt

ASTM D445 14.3

11.6







Certificate L2367

Laboratory Sample No. Unique Number : 11022961

Lab Number : 06176908

: WC0934071

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Tested Diagnosed Test Package : MOB 1 (Additional Tests: PercentFuel, TBN)

: 13 May 2024 : 15 May 2024

: 15 May 2024 - Sean Felton

4799 DEWEY AVE ROCHESTER, NY US 14612 Contact: SCOTT TRAIL

scott.trail@mcwa.com T: (585)775-5257

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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