

(EQ4281) E

East Side Operation Center (S/N 21814704)

Diesel Engine

PETRO CANADA DURON UHP 5W40 (15 GAL)

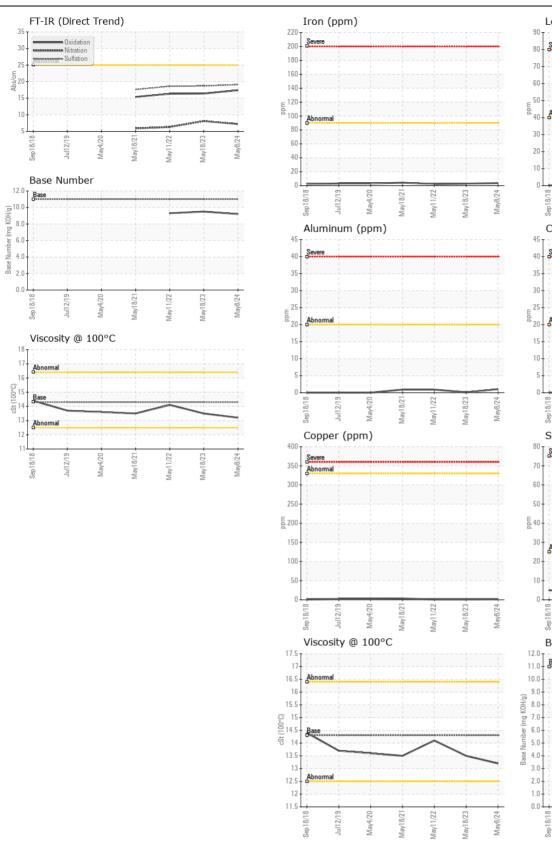
FEIRO CANADA DORON URF 5W40 (15 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0934065	WC0810883	WC0696104
	Sample Date		Client Info		08 May 2024	18 May 2023	11 May 2022
	Machine Age	hrs	Client Info		545	520	481
	Oil Age	hrs	Client Info		64	58	5
	Filter Age	hrs	Client Info		0	58	5
	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	4	3	2
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m	>2	0	<1	0
	Silver	ppm	ASTM D5185m	>2	1	<1	<1
	Aluminum	ppm	ASTM D5185m	>20	1	<1	<1
	Lead	ppm	ASTM D5185m	>40	2	2	1
	Copper	ppm	ASTM D5185m	>330	1	1	1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<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	ppm	ASTM D5185m	>25	4	3	5
	Potassium	ppm	ASTM D5185m		1	1	0
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	<1.0
	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	>20	7.2	8.1	6.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	18.7	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		5	5	5
	Boron	ppm	ASTM D5185m	65	65	70	74
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	0
	Molybdenum	ppm	ASTM D5185m	65	52	49	49
	Manganese	ppm	ASTM D5185m	0	<1	<1	0
	Magnesium	ppm	ASTM D5185m	1160	1045	1003	1016
	Calcium	ppm	ASTM D5185m	820	1097	1065	1095
	Phosphorus	ppm	ASTM D5185m	1160	1117	1034	1088
	Zinc	ppm	ASTM D5185m	1260	1350	1332	1239
	Sulfur	ppm	ASTM D5185m	3000	4288	3999	3182
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	16.4	16.3
	Base Number (BN)	mg KOH/g	ASTM D2896	11.0	9.2	9.5	9.3
		<u> </u>				10 -	

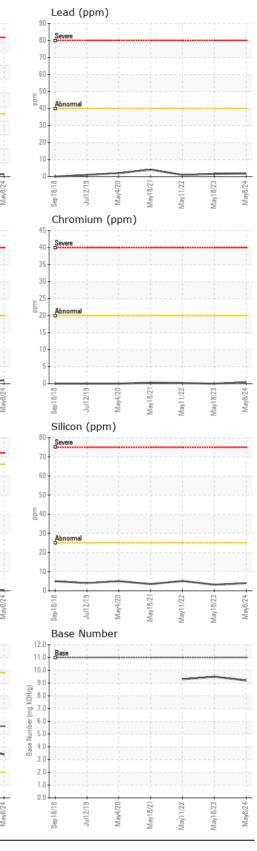
Visc @ 100°C cSt ASTM D445 14.3

14.1

13.5

13.2





MONROE COUNTY WATER AUTHORITY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received : WC0934065 : 13 May 2024 4799 DEWEY AVE Lab Number : 06176877 ROCHESTER, NY Tested : 14 May 2024 : 14 May 2024 - Sean Felton US 14612 Unique Number : 11022930 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: SCOTT TRAIL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. scott.trail@mcwa.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (585)775-5257 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: SCOTT TRAIL Page 2 of 2