

## Machine Id **734** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (--- QTS)**

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0773690	WC0725882	WC0773697
	Sample Date		Client Info		24 Jun 2024	29 Jan 2024	12 Dec 2023
	Machine Age	hrs	Client Info		200	4989	4799
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	2	7	1
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		0	<1	<1
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m		<1	2	1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>330	<1	<1	0
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	2	4	3
CONTAMINATION	Potassium	ppm	ASTM D5185m		<1	2	1
There is no indication of any contamination in the oil.	Fuel	ррпі	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.5	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	5.6	7.9	6.1
	Sulfation	Abs/.1mm	*ASTM D7415		17.4	20.4	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		<1	<1	0
	Boron	ppm	ASTM D5185m	0	<1	1	5
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		58	45	57
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		1021	906	917
	Calcium	ppm	ASTM D5185m		1113	906	989
	Phosphorus	ppm	ASTM D5185m		1081	921	1045
	Zinc	ppm	ASTM D5185m		1327	1049	1225
	Sulfur	ppm	ASTM D5185m		3829	2622	3109
	Oxidation	Abs/.1mm	*ASTM D7414		13.5	18.7	15.1
	Base Number (BN)				9.2	8.8	8.7
		0		45.4		10.0	10.0

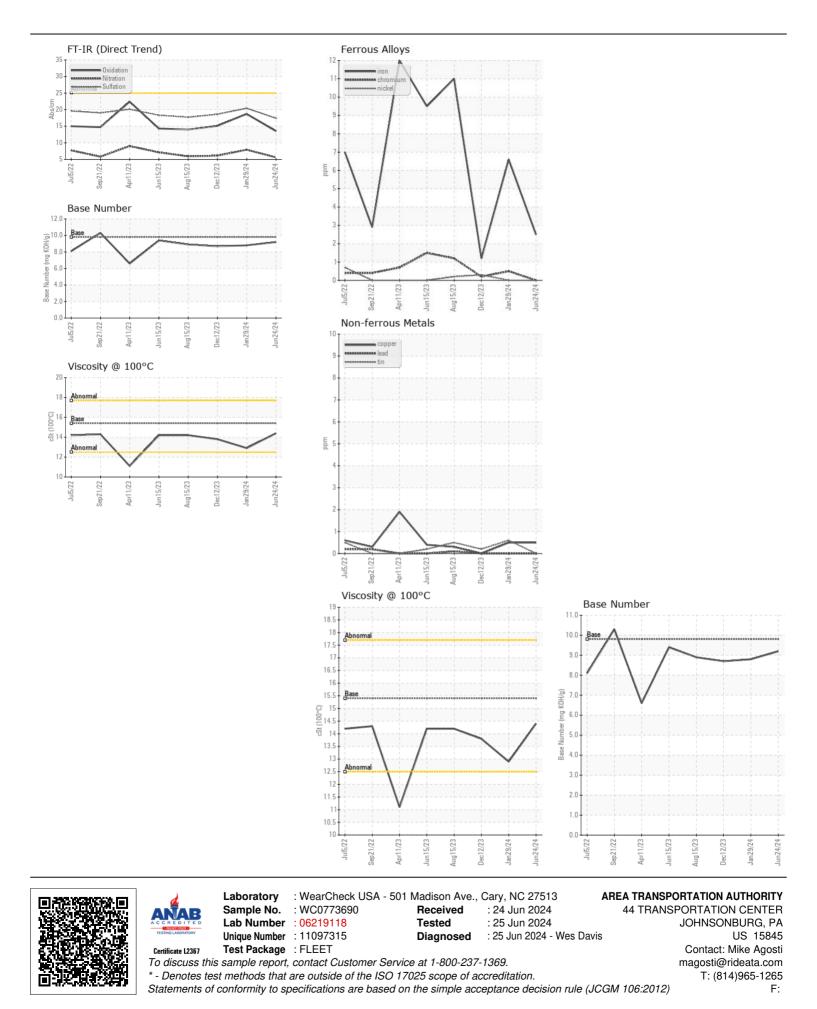
Visc @ 100°C cSt

ASTM D445 15.4

12.9

13.8

14.4



Contact/Location: Mike Agosti - AREJOH Page 2 of 2