

Machine Id **709** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (--- QTS)**

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0817175	WC0817198	WC0773734
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		22 Apr 2024	01 Feb 2024	21 Sep 2023
	Machine Age	hrs	Client Info		0	18191	17944
	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	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>100	4	0	9
WEAR	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	21	0	0	<1
	Silver	ppm	ASTM D5185m	-3	0	0	0
	Aluminum	ppm	ASTM D5185m		1	1	0
	Lead	ppm	ASTM D5185m		0	<1	1
	Copper	ppm	ASTM D5185m		<1	0	42
	Tin	ppm	ASTM D5185m		0	0	0
	Vanadium	ppm	ASTM D5185m	210	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		3	2	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1	0	0
	Fuel		WC Method		<1.0	<1.0	0.4
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624		6.1	6.1	5.8
	Sulfation	Abs/.1mm	*ASTM D7415		18.4	18.5	17.9
	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	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	0
	Boron	ppm	ASTM D5185m	0	6	5	0
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	60	58	58	53
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	984	944	873
	Calcium	ppm	ASTM D5185m	1070	1077	1027	950
	Phosphorus	ppm	ASTM D5185m	1150	1039	984	878
	Zinc	ppm	ASTM D5185m	1270	1260	1228	1097
	Sulfur	ppm	ASTM D5185m		3549	2969	3042
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	14.4	14.0
	Base Number (BN)	mg KOH/g			8.7	8.6	8.4
	Vier C 10000	- 01	AOTA DAAS	45.4	40 -	10.0	10.0

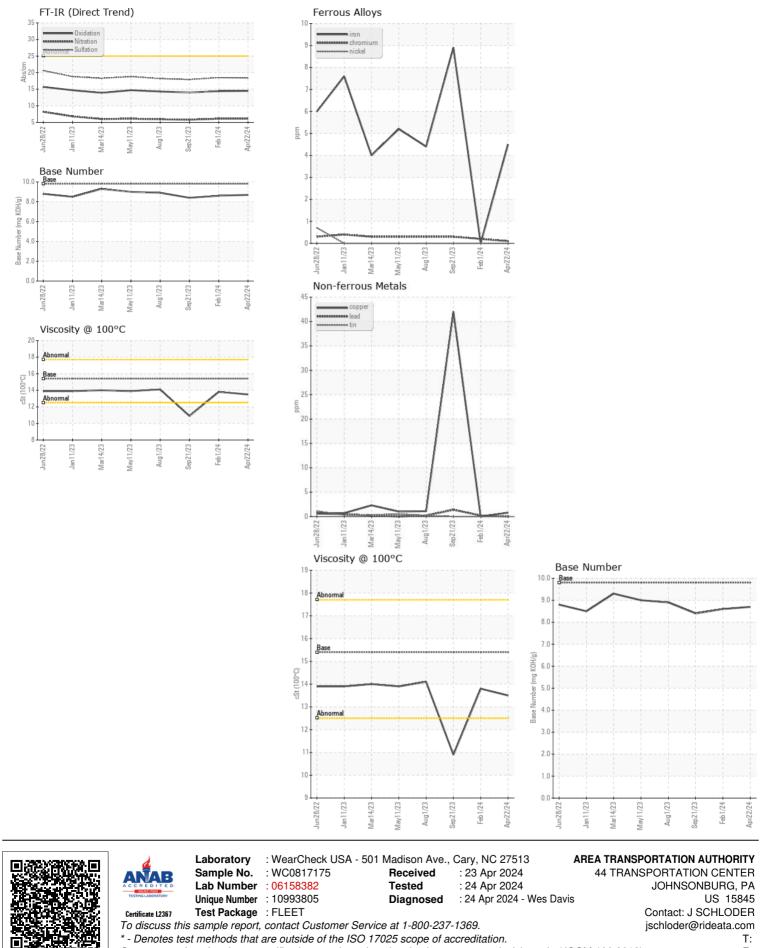
Visc @ 100°C cSt

ASTM D445 15.4

13.8

0.9

13.5



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

Contact/Location: J SCHLODER - AREJOH Page 2 of 2

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