

Machine Id WL0320 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

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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		GFL0085516	GFL0085524	GFL0085518
	Sample Date		Client Info		27 Jun 2024	04 May 2024	23 Mar 2024
	Machine Age	hrs	Client Info		8503	8130	7778
	Oil Age	hrs	Client Info		0	0	500
	Filter Age	hrs	Client Info		0	0	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	8	7	10
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	2	4
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	<1	0	<1
	Tin	ppm	ASTM D5185m	>15	0	0	<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	3	2	4
	Potassium	ppm	ASTM D5185m		1	0	2
There is no indication of any contamination in the oil.	Fuel	1-1-	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	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.0	5.7	6.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	16.8	17.0
	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	0	0
	Boron	ppm	ASTM D5185m	0	15	5	13
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	50	54	54
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	825	916	798
	Calcium	ppm	ASTM D5185m	1070	1178	1131	1057
	Phosphorus	ppm	ASTM D5185m	1150	999	1078	876
	Zinc	ppm	ASTM D5185m	1270	1253	1291	1161
	Sulfur	ppm	ASTM D5185m	2060	3595	3855	3047
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	12.7	13.1
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	7.6	7.5
	Vian @ 100%	~C+	ACTM DAAF		40.4	10.0	10 E

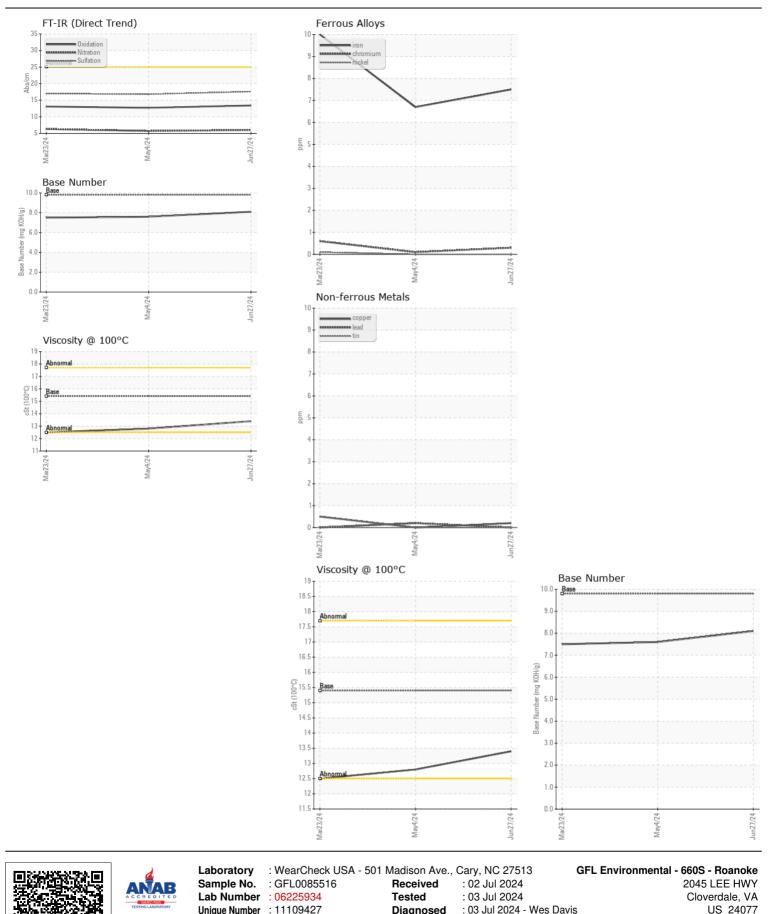
Visc @ 100°C cSt

ASTM D445 15.4

12.5

12.8

13.4



Unique Number : 11109427 Diagnosed : 03 Jul 2024 - Wes Davis Test Package : FLEET Contact: DELBERT BEASLEY Certificate L2367 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: Clyde Carwile Page 2 of 2

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