

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## Machine Id 912019 Component Diesel Engine

## PETRO CANADA DURON SHP 15W40 (36 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0110097	GFL0110035	GFL0059270
Resample at the next service interval to monitor.	Sample Date		Client Info		07 Feb 2024	07 Feb 2024	15 Nov 2023
	Machine Age	hrs	Client Info		3604	3604	3601
	Oil Age	hrs	Client Info		600	600	3601
	Filter Age	hrs	Client Info		600	600	3601
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>120	10	20	60
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	2
	Nickel	ppm	ASTM D5185m		2	0	5
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		2	12	2
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		2	<1	13
	Tin	ppm	ASTM D5185m		<1	0	2
	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 Potassium	ppm	ASTM D5185m ASTM D5185m		4	3	7
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		-	<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	<1.0 NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	> 1	0.4	0.8	1.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	8.1	11.1
	Sulfation	Abs/.1mm	*ASTM D7024		18.9	19.3	23.5
	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	2	4	5
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		2	2	3
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		57	55	63
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		909	894	947
	Calcium	ppm	ASTM D5185m		1010	975	1078
	Phosphorus	ppm	ASTM D5185m		1037	1042	1017
	Zinc	ppm	ASTM D5185m		1210	1206	1292
	Sulfur	ppm	ASTM D5185m *ASTM D7414		2832	2891	2219
	Oxidation	Abs/.1mm			14.9	15.0	21.8
	Base Number (BN)	ing KOH/g	ASTIM D2896	9.8	8.0	8.8	4.7

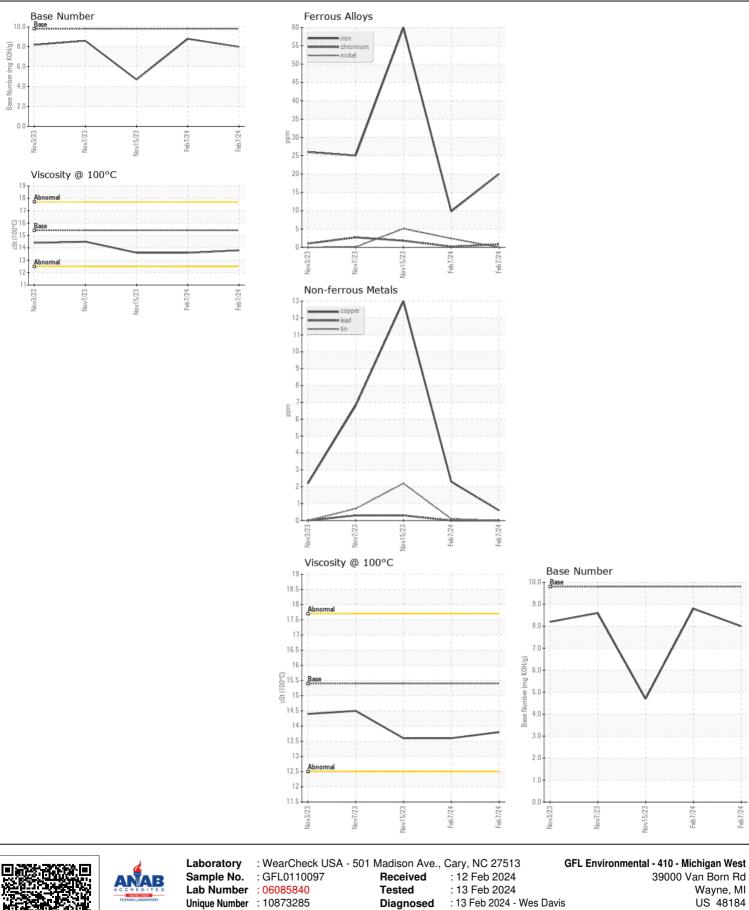
Visc @ 100°C cSt

ASTM D445 15.4

13.6

13.8

13.6



Certificate 12367 Test Package : FLEET 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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