

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

(GAP759) Machine Id 913023 Component Diesel Engine

## PETRO CANADA DURON SHP 15W40 (11 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0114544	GFL0103406	GFL0103407
	Sample Date		Client Info		17 May 2024	06 Mar 2024	15 Dec 2023
	Machine Age	hrs	Client Info		5848	5287	4703
	Oil Age	hrs	Client Info		561	584	516
	Filter Age	hrs	Client Info		561	584	516
	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	>120	11	12	11
	Chromium	ppm	ASTM D5185m		<1	0	<1
	Nickel	ppm	ASTM D5185m		3	1	2
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	<1	1
	Lead	ppm	ASTM D5185m		- <1	0	0
	Copper	ppm	ASTM D5185m		2	3	<1
	Tin	ppm	ASTM D5185m		-	0	1
	Vanadium	ppm	ASTM D5185m	10	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	3	3
There is no indication of any contention in the cil	Potassium	ppm	ASTM D5185m	>20	2	0	1
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>4	0.5	0.7	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	8.8	7.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	19.5	18.5
	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		2	4	2
	Boron	ppm	ASTM D5185m	0	3	3	10
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		1	0	0
	Molybdenum	ppm	ASTM D5185m		57	62	62
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		841	861	875
	Calcium	ppm	ASTM D5185m		985	985	995
	Phosphorus	ppm	ASTM D5185m		1037	780	986
	Zinc	ppm	ASTM D5185m		1183	1045	1163
	Sulfur	ppm	ASTM D5185m		3072	2374	2788
	Oxidation	Abs/.1mm	*ASTM D3103111		13.8	15.4	13.7
	Base Number (BN)		ASTM D7414 ASTM D2896		7.1	6.5	7.0
		nig KOTI/g		0.0		0.0	1.0

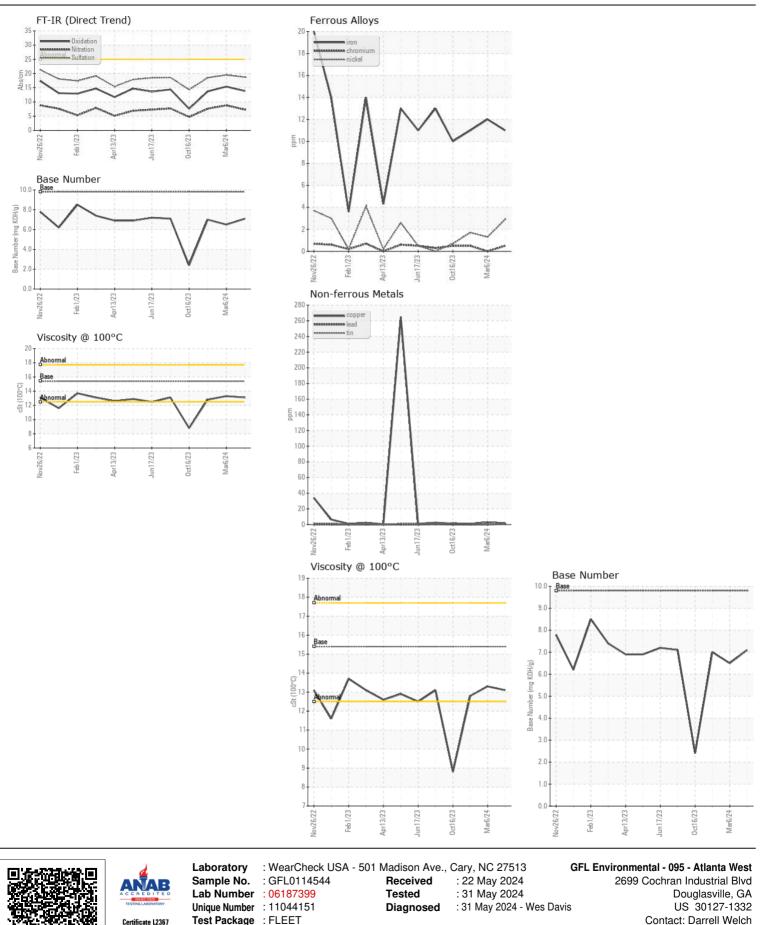
Visc @ 100°C cSt

ASTM D445 15.4

12.8

13.3

13.1



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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