

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id **728083** Component **Diesel Engine** 

## 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.	Sample Number		Client Info		GFL0111241	GFL0102125	GFL0087936
	Sample Date		Client Info		11 Apr 2024	08 Jan 2024	29 Sep 2023
	Machine Age	hrs	Client Info		13771	13771	13771
	Oil Age	hrs	Client Info		600	600	600
	Filter Age	hrs	Client Info		600	600	600
	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	>80	6	23	19
	Chromium	ppm	ASTM D5185m	>5	<1	<1	1
	Nickel	ppm	ASTM D5185m	>2	0	0	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>30	2	5	6
	Lead	ppm	ASTM D5185m	>30	<1	0	<1
	Copper	ppm	ASTM D5185m	>150	<1	1	2
	Tin	ppm	ASTM D5185m	>5	<1	0	<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	>20	3	6	7
CONTAMINATION	Potassium	ppm	ASTM D5185m		<1	8	10
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.5	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	6.1	10.1	8.4
	Sulfation	Abs/.1mm	*ASTM D7415		18.1	21.0	20.2
	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	7	4
	Boron	ppm	ASTM D5185m	0	0	<1	4
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	61	64
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		973	1034	1052
	Calcium	ppm	ASTM D5185m		1077	1061	1169
	Phosphorus	ppm	ASTM D5185m		1034	1072	1095
	Zinc	ppm	ASTM D5185m		1224	1318	1384
	Sulfur	ppm	ASTM D5185m		3640	2940	3373
	Oxidation	Abs/.1mm	*ASTM D7414		13.9	18.7	18.3
	Base Number (BN)		ASTM D2896		8.5	6.5	7.2
	\/' O 10000	0		45.4		10.0	

Visc @ 100°C cSt

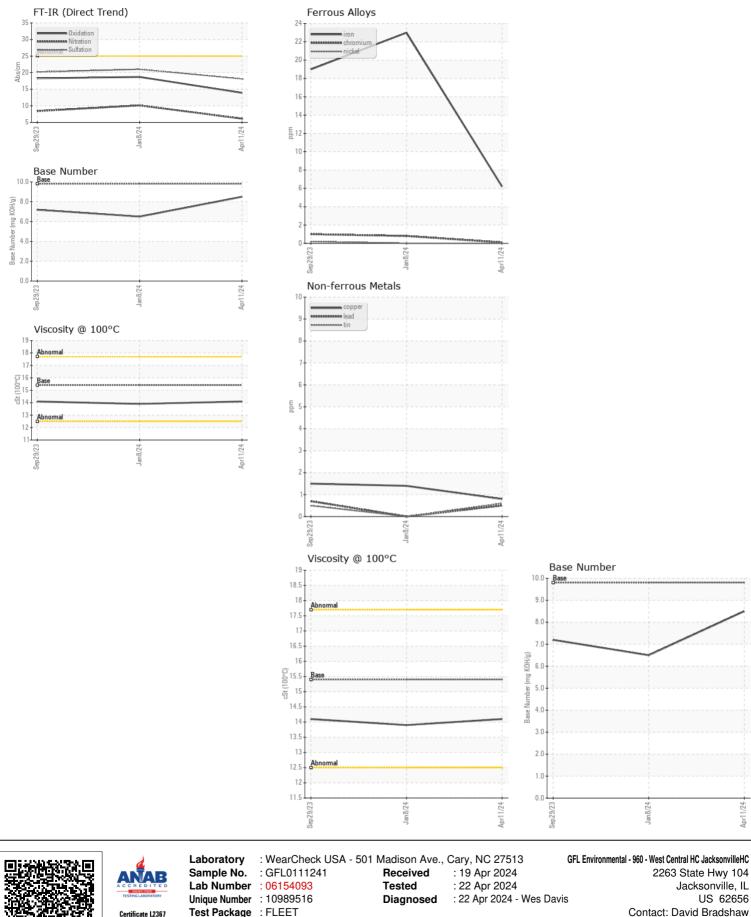
Contact/Location: See also GFL960B, 960C, 960D - David Bradshaw - GFL960 Page 1 of 2

14.1

13.9

14.1

ASTM D445 15.4



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 accentance decision rule (ICOM 105

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Contact/Location: See also GFL960B, 960C, 960D - David Bradshaw - GFL960 Page 2 of 2

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