

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

(BD17484) Machine Id 910094

## Component Diesel Engine

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

DECOMMENDATION	т			Line A / A has		L.P. Land	Lister 0
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. ( Customer Sample	Sample Number		Client Info		GFL0116239	GFL0116282	
Comment: 555 hours since last service. Services completed )	Sample Date		Client Info		08 Jul 2024	18 Apr 2024	22 Jan 2024
	Machine Age	hrs	Client Info		5323	4821	4316
	Oil Age	hrs	Client Info		555	53	574
	Filter Age	hrs	Client Info		555	53	574
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>120	10	11	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	1
	Nickel	ppm	ASTM D5185m		0	<1	1
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m		<1	3	3
	Lead	ppm	ASTM D5185m		<1	1	1
	Copper	ppm	ASTM D5185m	>330	2	4	4
	Tin	ppm	ASTM D5185m	>15	0	2	1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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CONTAMINATION	Silicon	ppm	ASTM D5185m		4 <1	5 5	8
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m WC Method			5 <1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	> 1	0.6	0.5	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.7	8.3
	Sulfation	Abs/.1mm	*ASTM D7024		20.1	19.6	19.8
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	6	13
The DN regult indicates that there is quitable alkelinity remaining in the	Boron	ppm	ASTM D5185m	0	3	3	2
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		55	62	59
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		835	886	912
	Calcium	ppm	ASTM D5185m		1203	1067	1043
	Phosphorus	ppm	ASTM D5185m		959	1015	930
	Zinc	ppm	ASTM D5185m		1175	1181	1168
	Sulfur	ppm	ASTM D5185m		2845	2909	2806
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	15.4	15.5

7.0

13.2

7.5

13.0

7.0

12.8

Base Number (BN) mg KOH/g ASTM D2896 9.8

ASTM D445 15.4

Visc @ 100°C cSt

