

## Machine Id **221019** Component **Main Engine** Fluid **PETRO CANADA DURON SHP 15W40 (--- GAL)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0122889		
	Sample Date		Client Info		11 Jun 2024		
	Machine Age	hrs	Client Info		1893		
	Oil Age	hrs	Client Info		1893		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		27		
	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		4		
	Copper	ppm	ASTM D5185m		1		
	Tin	ppm	ASTM D5185m	>14	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION Fuel content negligible. There is no indication of any contamination in the oil.	Silicon	nom	ASTM D5185m	> 20	4		
	Potassium	ppm	ASTM D5185m		2		
	Fuel	ppm %	ASTM D318511	>2.0	0.2		
	Water	/0	WC Method		NEG		
	Glycol		WC Method	>0.1	NEG		
	Soot %	%	*ASTM D7844		0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	7.4		
	Sulfation	Abs/.1mm	*ASTM D7024		19.8		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
		304141	visual	20.1			
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>75	4		
	Boron	ppm	ASTM D5185m	0	6		
	Barium	ppm	ASTM D5185m	0	<1		
	Molybdenum	ppm	ASTM D5185m	60	65		
	Manganese	ppm	ASTM D5185m	0	<1		
	Magnesium	ppm	ASTM D5185m	1010	967		
	Calcium	ppm	ASTM D5185m		1112		
	Phosphorus	ppm	ASTM D5185m	1150	1100		
	Zinc	ppm	ASTM D5185m		1237		
	Sulfur	ppm	ASTM D5185m	2060	3141		
	Oxidation	Abs/.1mm	*ASTM D7414		15.7		
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5		
	VI 0 10000	- 01	AOTH DATE	4 5 4			

Visc @ 100°C cSt

ASTM D445 15.4

12.4



