

OIL ANALYSIS REPORT

GFL234 423007

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (--- GAI

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

AL)				Mar2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110643		
Sample Date		Client Info		19 Mar 2024		
Machine Age	hrs	Client Info		17023		
Oil Age	hrs	Client Info		600		
Oil Changed	1110	Client Info		Changed		
Sample Status				NORMAL		
-						
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	33		
Chromium	ppm	ASTM D5185(m)		1		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)	-	0		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)		2		
Lead	ppm	ASTM D5185(m)	>40	<1		
Copper	ppm	ASTM D5185(m)		2		
Tin	ppm	ASTM D5185(m)	>15	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	8		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	50	73		
Manganese	ppm	ASTM D5185(m)	0	0		
Magnesium	ppm	ASTM D5185(m)	950	618		
Calcium	ppm	ASTM D5185(m)	1050	1472		
Phosphorus	ppm	ASTM D5185(m)	995	942		
Zinc	ppm	ASTM D5185(m)	1180	1126		
Sulfur	ppm	ASTM D5185(m)	2600	2544		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3		
Sodium	ppm	ASTM D5185(m)		55		
Potassium	ppm	ASTM D5185(m)	>20	47		
Glycol	%	ASTM D7922*		0.0		
-			11			
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.2		
Nitration	Abs/cm	ASTM D7624*	>20	12.3		
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.2		

Sample Rating Trend



NORMAL



OIL ANALYSIS REPORT

