

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 433019

Component Natural Gas Engine Fluid PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117742	GFL0103961	
Sample Date		Client Info		10 Apr 2024	25 Jan 2024	
Machine Age	hrs	Client Info		1225	611	
Oil Age	hrs	Client Info		614	611	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	17	33	
Chromium	ppm	ASTM D5185m	>4	2	<1	
Nickel	ppm	ASTM D5185m	>2	<1	2	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>9	4	8	
Lead	ppm	ASTM D5185m	>30	<1	1	
Copper	ppm	ASTM D5185m	>35	3	13	
Tin	ppm	ASTM D5185m	>4	1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	7	9	
Barium	ppm	ASTM D5185m	5	0	3	
Molybdenum	ppm	ASTM D5185m	50	58	49	
Manganese	ppm	ASTM D5185m	0	2	10	
Magnesium	ppm	ASTM D5185m	560	592	733	
Calcium	ppm	ASTM D5185m	1510	1648	1225	
Phosphorus	ppm	ASTM D5185m	780	794	652	
Zinc	ppm	ASTM D5185m	870	1007	910	
Sulfur	ppm	ASTM D5185m	2040	2785	2205	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	9	26	
Sodium	ppm	ASTM D5185m		6	3	
Potassium	ppm	ASTM D5185m	>20	9	18	
INFRA-RED	<u> </u>	method	limit/base	current	history1	history2
INFRA-RED Soot %	%		limit/base	current 0		history2
		method	limit/base		history1	
Soot %	%	method *ASTM D7844		0	history1 0	
Soot % Nitration	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20	0 11.5	history1 0 11.3	
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >30	0 11.5 22.6	history1 0 11.3 20.6	
Soot % Nitration Sulfation FLUID DEGRAE	% Abs/cm Abs/.1mm DATION	method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	>20 >30 limit/base	0 11.5 22.6 current	history1 0 11.3 20.6 history1	 history2



OIL ANALYSIS REPORT

35 T		VISUAL		method	limit/base	current	history1	history2
30 - With and Annual Annua		White Metal	scalar	*Visual	NONE	NONE	NONE	
surgers Sulfation		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
E 25 - Abnormal		Precipitate	scalar	*Visual	NONE	NONE	NONE	
20		Silt	scalar	*Visual	NONE	NONE	NONE	
15		Debris	scalar	*Visual	NONE	NONE	NONE	
10		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	0/24 -	Appearance	scalar	*Visual	NORML	NORML	NORML	
Jan 25/24	Apr10/24	Odor	scalar	*Visual	NORML	NORML	NORML	
		Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Base Number		Free Water	scalar	*Visual		NEG	NEG	
Page		FLUID PROPE		method	limit/base	current	history1	history2
8.0		Visc @ 100°C	cSt	ASTM D445		15.0	14.4	
6.0		GRAPHS			-			
2.0		Ferrous Alloys						
0.0	e.	35						
Jan 25/24	0.0	30 - newsame chromium	_					
-	<	25						
Viscosity @ 100°C		20 15						
Abnormal		10						
17- 516-		5-						
5 16 15 - Base		0						
8 14		Jan 25/24			Apr10/24			
Abnormal		Jan 2			Apr1			
11		Non-ferrous Meta	ls					
Jan 25/24	ACUE	14 copper						
Jan		12 - Lead						
		10	_					
		E 8-						
		6						
		4						
		2						
		0			*****			
		125/24			4pr10/24 .			
		Jan 2			Apr1			
		Viscosity @ 100°	C			Base Number		
		18			12.0			
		Abnormal			10.0	Base		
					B/HOX	D		
	ć	Base			B m			
	ŝ				5 6.0	U 🛉		
					-e			
		2 15 9			quinn 4.0	0-		
		13 Abnormal			(b)HOX BU HOX BU HOX HOX BU HOX HOX BU HOX HOX HOX HOX HOX HOX HOX HOX HOX HOX			
		12			2.0			
		13 Abnormal 12			2.0			P C C
	a a a a a	13 Abnormal			2.0	Jan25/24		
	Laboratory : Sample No. : Lab Number : Unique Number : Test Package :	WearCheck USA - 50 GFL0117742 06155133 10990556 FLEET	Recei Teste Diagn	ved : 19 d : 22 losed : 22	2.0 4.00 4	GFL Env 7		ast Mount Haulin Houston Roa Houston, T US 7705 t: Saul Castil
	Laboratory : Sample No. : Lab Number : Unique Number : Test Package :	WearCheck USA - 50 GFL0117742 06155133 10990556	Recei Teste Diagn	ved : 19 d : 22 losed : 22	2.0 4.00 4	GFL Env 7	213 East Mount Contac	ast Mount Hauli i Houston Roa Houston, T US 7705

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