

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 234007 Component

Fluid

Diesel Engine

PETRO CANADA DURON SHP 15W40 (9 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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.

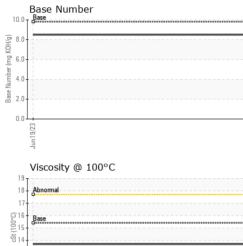
	Client Info		PCA0098103		
	Client Info		19 Jun 2023		
hrs	Client Info		537		
hrs	Client Info		0		
	Client Info		N/A		
			NORMAL		
ON	method	limit/base	current	history 1	history 2
	WC Method	>3.0	<1.0		
	WC Method		NEG		
2	mothod	limit/baco	ourropt	history 1	history 2
				TIISTOLA I	Thistory 2
ppm			-		
ppm		>20	-		
ppm	ASTM D5185m	>5	4		
ppm	ASTM D5185m	>2	0		
ppm	ASTM D5185m	>2	0		
ppm	ASTM D5185m	>20	0		
ppm	ASTM D5185m	>40	0		
ppm	ASTM D5185m	>330	20		
ppm	ASTM D5185m	>15	<1		
ppm	ASTM D5185m		0		
ppm	ASTM D5185m		0		
	method	limit/base	current	history 1	history 2
ppm	ASTM D5185m	0	26		
ppm	ASTM D5185m	0	0		
ppm	ASTM D5185m	60	60		
ppm	ASTM D5185m	0	<1		
ppm	ASTM D5185m	1010	838		
ppm	ASTM D5185m	1070	990		
ppm	ASTM D5185m	1150	869		
	ASTM D5185m	1270	1060		
ppm	ASTM D5185m	2060	3333		
TS	method	limit/base	current	history 1	history 2
ppm	ASTM D5185m	>25	9		
	ASTM D5185m		5		
ppm	ASTM D5185m	>20	<1		
	method	limit/base	current	history 1	history 2
%		>4			
Abs/.1mm	*ASTM D7415	>30	19.9		
ATION	method	limit/base	current	history 1	history 2
Abs/.1mm	*ASTM D7414	>25	16.1		
	hrs oN oN oP ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	hrsClient Info Client Info Client Info Client InfohrsClient Info Client InfoONmethodWC MethodWC MethodWC MethodMathod	hrsClient Info Client Info Client InfohrsClient Info Client InfoONmethodWC Method>3.0WC Method>3.0WC Method>3.0pmASTM D5185mppmASTM D5185m<	hrsClient Info537hrsClient Info0Client InfoN/AClient InfoN/ANORMALNORMALONmethodimit/baseWC Method>3.0<1.0	hrs Client Info 537 hrs Client Info 0 Client Info N/A NORMAL WC Method >3.0 <1.0



13 Abnormal 12 11 Jun19/23

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	VISUAL		method	limit/base	current	history 1	history 2
	White Metal	scalar *	Visual	NONE	NONE		
	Yellow Metal		Visual	NONE	NONE		
	Precipitate		Visual	NONE	NONE		
	Silt		Visual	NONE	NONE		
	Debris	scalar *	Visual	NONE	NONE		
	Sand/Dirt	scalar *	Visual	NONE	NONE		
Jun 19/23	Appearance	scalar *	Visual	NORML	NORML		
lunt	Odor	scalar *	Visual	NORML	NORML		
с	Emulsified Water	scalar *	Visual	>0.2	NEG		
	Free Water	scalar *	Visual		NEG		
	FLUID PROPE	RTIES	method	limit/base	current	history 1	history 2
	Visc @ 100°C	cSt A	STM D445	15.4	13.7		
	GRAPHS						
1	Ferrous Alloys						
	14						
	12 - iron						
	10 - nickel						
	8						
	udd 6-						
	4						
	2						
	2						
	23 23		**********************	/23			
	Jun 19/23			Jun 19/23			
	Non-ferrous Metals	s		7			
	²⁰	5		_			
	copper						
	15 tin						
	튭 10 -						
	5						

	un 19/23			un 19/23			
	7			J.			
	Viscosity @ 100°C				Base Number		
	19 T				Base Number		
	¹⁹			10.0			
	19 18 <mark>- Abnormal</mark> 17 -			10.0			
	19 18 <mark>- Abnormal</mark> 17 -			10.0			
	19 18 Abnormal			10.0			
	Abnormal 17 16 Base 15 12			10.0 - (D) HOX 6.0 - (D) HOX 10 Jac (U) Jac (U			
	Abnormal Abnormal Base Base 15 14			10.0 (8,0) (8,0H(0) (0)H(0)H(0) (0)H(0)H(0)H(0)H(0)H(0)H(0)H(0)H(0)H(0)H			
	Abnormal Abnormal Base Base Gammal Abnormal			10.0 - (b) Hox Movies (b) Hox Movies			
	Abnormal Abnormal Base Base Abnormal Abnormal Abnormal			10.0 (b) HOX Bull HOX Bull argumny 8888 2.0 0.0	Base		1923
	Abnormal Abnormal Base Base Gammal Abnormal			10.0 (b) HCX Dw) augurny 888 2.0 0.0			Jun1923
laboratory	Abnomal Abnomal Base Base Abnomal Concernent Abnomal Concernent Abnomal Concernent Concernen			10.0 8.0 0.0 0.0 0.0 100 X0H(0) 9 8 8 8 8 8 8 9 0.0 0.0 0.0	Base		
Laboratory Sample No	Abnomal Base Base Construction Base Construction Abnomal Construction	i01 Madiso		10.0 (0)HOX Bul 340 EZ(61um y, NC 27513	Base	ETHEL HEIGH	TS (NWA AR)
Sample No.	Abnomal Base Base Base Abnomal Control 15 Base Abnomal Control 15 Base Control 15 Base Control 15 Base Control 15 Control 1	i01 Madiso Received	: 03 J	10.0 8.0 0.0 0.0 0.0 100 X0H(0) 9 8 8 8 8 8 8 9 0.0 0.0 0.0	Base	84	
	Abnomal Base Bas	i01 Madiso	: 03 J : 05 J	10.0 (0)HOX 0ul and 00 (0)HOX	Base	84	TS (NWA AR) I8 HWY 264 E
Certificate L2367 Sample No. Lab Number Unique Number Test Package	Abnomal Base Base Base Base Base Base Control of the second secon	i01 Madiso Received Diagnosed Diagnostic	: 03 J : 05 J ian : Wes	10.0 10.0	Base EZ6[IIII] LRS - B	84 BETHEL Contact: JAMIE	TS (NWA AR) 18 HWY 264 E HEIGHTS, AR US 72764 1 HAYWORTH
Certificate 12367 To discuss this sample report,	Abnomal Base Bas	501 Madiso Received Diagnosed Diagnostic	: 03 J : 05 J ian : Wes	10.0 (b) HOX 000 10.0 (b) HOX 000 10.0 (c) HOX 000 (c) HOX 0000 (c) HOX 0000 (c)	Base EZ6[IIII] LRS - B	84 BETHEL Contact: JAMIE jhayworth@Ir	TS (NWA AR) 18 HWY 264 E HEIGHTS, AR US 72764 E HAYWORTH srecycles.com
Sample No. Lab Number Unique Number	Abnormal Base Base Base Base Base Base Base Base Base Base Base Control of the ISO 12 Control of the	501 Madiso Received Diagnosed Diagnostic Fice at 1-800 7025 scope	: 03 J : 05 J ian : Wes 0-237-1369 e of accredi	10.0 10.0	Ezee	84 BETHEL Contact: JAMIE jhayworth@Ir	TS (NWA AR) 18 HWY 264 E HEIGHTS, AR US 72764 1 HAYWORTH

Submitted By: ALSO ORIVANAR ORIHAR ORITOP - JAMIE HAYWORTH