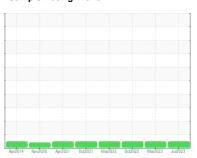


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



GMC 336U

Component **Diesel Engine**

PETRO CANADA DURON SHP 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

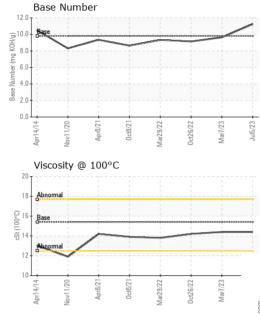
Fluid Condition

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

April 10 Nevita 20 April 12 Nevita 20 April 22 Octiv 2 Octiv 2 Marta 23 Judo 23									
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		PCA0095373	PCA0082320	PCA0082314			
Sample Date		Client Info		05 Jul 2023	07 Mar 2023	26 Oct 2022			
Machine Age	mls	Client Info		116190	100366	87783			
Oil Age	mls	Client Info		15824	12583	23778			
Oil Changed		Client Info		Changed	Changed	Changed			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>5	<1.0	<1.0	<1.0			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METAL	S	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>100	12	10	18			
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>2	0	0	0			
Titanium	ppm	ASTM D5185m	>2	0	0	0			
Silver	ppm	ASTM D5185m	>2	0	0	2			
Aluminum	ppm	ASTM D5185m	>25	2	<1	<1			
Lead	ppm	ASTM D5185m	>40	0	0	0			
Copper	ppm	ASTM D5185m	>330	0	<1	<1			
Tin	ppm	ASTM D5185m	>15	<1	0	0			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	1	3	4			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	60	56	65			
Manganese	ppm	ASTM D5185m	0	<1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	1006	888	937			
Calcium	ppm	ASTM D5185m	1070	1084	1020	1148			
Phosphorus	ppm	ASTM D5185m	1150	1034	936	1013			
Zinc	ppm	ASTM D5185m	1270	1282	1125	1257			
Sulfur	ppm	ASTM D5185m	2060	3668	3464	3369			
CONTAMINAN	ITS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	3	3	3			
Sodium	ppm	ASTM D5185m		0	2	0			
Potassium	ppm	ASTM D5185m	>20	0	0	2			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.6	0.9	1.2			
Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.4	10.5			
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.4	22.9			
FLUID DEGRA	OATION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	14.0	17.5			
Base Number (BN)	mg KOH/g		9.8	11.25	9.65	9.14			
	39								



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIFS	method	limit/base	current	historv1	historv2

	FLUID F	PROF	PERT	IES	method		limit/base		current		nt	history1		history2		
Visc @ 100°C cS		St	ASTM	D445	15.4		14	.4		14.4 14.2			4.2			
	GRAPH															
250	Iron (ppn	n (ppm)						100	Lead (ppm)		m)					
200 - 150 - 100 -	Severe			-				80	Sever	e				-		
	Abnormal					60- E 40-		Abno	rmal							
50	,							20								
0	4	21	21+1-2	12	22	- 53	- 53	0	4	02	21	21		22		23
	Apr14/14 Nov11/20	Apr8/21	Oct6/21	Mar29/22	Oct26/22	Mar7/23	Jul5/23		Apr14/14	Nov11/20	Apr8/21	Oct8/21	Mar29/22	Oct26/22	Mar7/23	Jul5/23
	Aluminun	n (ppn	n)							omiur	n (ppr	n)				
50 40	Severe							50 40	Sever	e						
표 ³⁰	Abnormal							E 30								
² 20	İ							² 20	Abno	rmai						
0				21		-		0	<u> </u>	-				21	-	
	Apr14/14 Nov11/20	Apr8/21	Oct8/21	Mar29/22	0ct26/22	Mar7/23	Jul5/23		Apr14/14	Nov11/20	Apr8/21	Oct8/21	Mar29/22	0ct26/22	Mar7/23	Jul5/23
	Copper (ppm)									on (p	pm)		2			
400	Severe							80	Sever	e						
300								60 Ed 40	1							
돌 200 100								요***	Abno	rmal						
0								0	_	\triangle	_					_
	Apr14/14 Nov11/20	Apr8/21.	Oct8/21	Mar29/22	0ct26/22	Mar7/23	Jul5/23		Apr14/14	Nov11/20	Apr8/21	Oct8/21-	Mar29/22	0ct26/22	Mar7/23	Jul5/23
	₹ ≥ Viscosity			Ĭ	ő	2				≗ e Nun			×	ő	2	,
20 18	T :							第10.0 第10.0	_							Market 1
	Abnormal Base							D 8.0		<u> </u>		$\overline{}$				
CSt (100°C)	Abnormal							Base Number (mg KOH/g) 0.0 0.7 0.7								
12								Pase 2.0								
10	Apr14/14 -	Apr8/21-	0ct8/21+	Mar29/22 +	0ct26/22 +	Mar7/23 +	Jul5/23	0.0	Apr14/14	Nov11/20 +	Apr8/21-	Oct8/21-	Mar29/22 +	0ct26/22 +	Mar7/23 +	Jul5/23
	Apr	Ag	ŏ	Mar	Oct.	N	٦		Apr	Nov	Ą	ŏ	Mar	Oct	Z	7





Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10607391 Test Package : MOB 2

: PCA0095373 : 05927444

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 17 Aug 2023 : 18 Aug 2023 Diagnostician : Wes Davis

BROWN BUS COMPANY - UPSTATE TRANSIT 50 VENNER ROAD

AMSTERDAM, NY US 12010

Contact: CONNIE WILBUR cwilbur@browncoach.com

T: (518)843-4700 F: (518)843-3600

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)