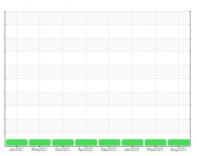


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 311153
Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

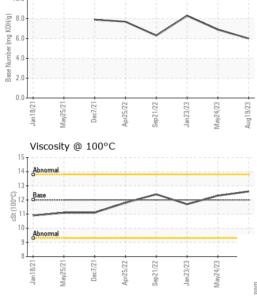
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Justice 1 May 2021 Doctor April 22 Suptice 2 Juntice 3 May 2023 Aug 2023 Aug 2023										
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2				
Sample Number Sample Date		Client Info		PCA0104245 19 Aug 2023	PCA0097997 24 May 2023	PCA0089642 23 Jan 2023				
Machine Age	mls	Client Info		123442	112089	99088				
Oil Age	mls	Client Info		0	0	0				
Oil Changed		Client Info		Changed	Not Changd	Not Changd				
Sample Status				NORMAL	NORMAL	NORMAL				
CONTAMINAT	ΓΙΟΝ	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	57	32	27				
Chromium	ppm	ASTM D5185m	>20	2	1	1				
Nickel	ppm	ASTM D5185m	>4	0	<1	<1				
Titanium	ppm	ASTM D5185m		0	0	0				
Silver	ppm	ASTM D5185m	>3	0	0	0				
Aluminum	ppm	ASTM D5185m	>20	16	15	8				
Lead	ppm	ASTM D5185m	>40	0	0	<1				
Copper	ppm	ASTM D5185m	>330	3	4	3				
Tin	ppm	ASTM D5185m	>15	2	2	1				
Vanadium	ppm	ASTM D5185m		0	<1	0				
Cadmium	ppm	ASTM D5185m		0	0	0				
ADDITIVES		method	limit/base	current	history1	history2				
Boron	ppm	ASTM D5185m	2	16	23	23				
Barium	ppm	ASTM D5185m	0	0	0	0				
Molybdenum	ppm	ASTM D5185m	50	49	49	55				
Manganese	ppm	ASTM D5185m	0	<1	1	<1				
Magnesium	ppm	ASTM D5185m	950	731	753	801				
Calcium	ppm	ASTM D5185m	1050	1467	1509	1346				
Phosphorus	ppm	ASTM D5185m	995	992	1052	996				
Zinc	ppm	ASTM D5185m	1180	1275	1337	1205				
Sulfur	ppm	ASTM D5185m	2600	3737	3978	3559				
CONTAMINAN	NTS	method	limit/base	current	history1	history2				
Silicon	ppm	ASTM D5185m	>25	5	5	5				
Sodium	ppm	ASTM D5185m		2	2	2				
Potassium	ppm	ASTM D5185m	>20	16	14	11				
INFRA-RED		method	limit/base	current	history1	history2				
Soot %	%	*ASTM D7844	>3	1.2	0.8	0.6				
Nitration	Abs/cm	*ASTM D7624	>20	13.1	10.8	9.6				
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.4	23.2	20.2				
FLUID DEGRA	DATION	method	limit/base	current	history1	history2				
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.4	20.6	16.8				
Base Number (BN)	mg KOH/g	ASTM D2896		6.0	6.9	8.3				
(3.1)	39									



Base Number

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 PROPERTIES			meth	ethod limit/base current		ıt	hist	tory1	history2						
\	Visc @ 100°C cSt		ASTM	D445	12.00 12.6				12.3			11.7				
	GRAPH	IS														
250	Iron (ppr	n)						100		d (pp	m)					
200	Savara			-				80	Sever	e			-	-		
된 ¹⁵⁰ 100	Abnormal							mdd 40	Abno	mal						
100 50				_				- 40 20	- 0							
0		$\frac{}{}$	2	2	3	3	3	0	<u> </u>	-		2	2	m	m	3
	Jan 18/21 May25/21	Dec7/21	Apr25/22	Sep21/22	Jan23/23	May24/23	Aug19/23		Jan18/21	May25/21	Dec7/21	Apr25/22	Sep21/22	Jan23/23	May24/23	Aug19/23
	Aluminun	n (ppn	n)			~	d.		Chromium (ppm)							4
50 40	Severe							50 40	Sever	e						
된 ³⁰ 20	-							E 30	-							
				_				20	Abno	rmal						
10	L	$\overline{}$						10	_	_			_	_		_
	Jan 18/21 May25/21	Dec7/21.	Apr25/22	Sep21/22	Jan23/23	May24/23	Aug19/23		Jan 18/21	May25/21	Dec7/21	Apr25/22	Sep21/22	Jan23/23	May24/23	Aug19/23 -
	Copper (ppm) Silicon (ppr												Ø	Ä	Σ	A
400								80								
300	1							60	1							
돌 200 100								변 40	Abno	rmal						
0								20		_	_					
0	Jan18/21- May25/21-	Dec7/21-	Apr25/22 -	Sep21/22 -	Jan23/23 -	May24/23 -	Aug19/23	0	Jan 18/21-	May25/21-	Dec7/21-	Apr25/22 -	Sep21/22 -	Jan23/23 -	May24/23 -	Aug19/23
				Set	Jar	Mar	Aug		,	≝ e Nur		Ap	Sep	Jar	May	Aug
16	Viscosity @ 100°C									- Nui						
ျှ ၁	Abnormal							Base Number (mg KOH/g) 0.5 0.9 0.8					~		-	_
(C)-0012	Base							1) Jagur 4.0	-							
10	Abnormal							Base N	1							
8	Jan18/21+	Dec7/21	Apr25/22 -	Sep21/22 -	Jan23/23 +	May24/23 -	Aug19/23	0.0	Jan18/21	May25/21+	Dec7/21-	Apr25/22 +	Sep21/22 +	Jan23/23 +	May24/23 -	Aug19/23
	Jan	De	Aprí	Sepi	Janž	May	Aug		Jan	Мау	De	Apri	Sep	Janž	May	Aug





Laboratory Sample No. Lab Number

Unique Number : 10629251

: PCA0104245 : 05938639

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 Aug 2023 Diagnosed

: 31 Aug 2023 Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: TBN)

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)

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