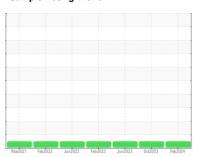


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **311515**

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

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

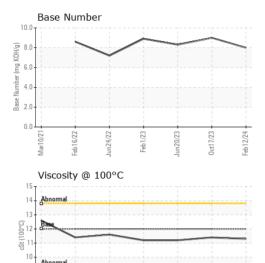
Fluid Condition

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

QTS)		Mar2021	Feb2022 Jun2022	Feb 2023 Jun 2023 Oct 2023	Feb2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0118838	PCA0106323	PCA0098023
Sample Date		Client Info		12 Feb 2024	17 Oct 2023	20 Jun 2023
Machine Age	mls	Client Info		53507	49771	311515
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	24	12	24
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	9	7	10
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	3	2
Tin	ppm	ASTM D5185m	>15	1	<1	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	1	2	11
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	50	61	61	65
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	926	951	847
Calcium	ppm	ASTM D5185m		1039	1026	1149
Phosphorus	ppm	ASTM D5185m	995	994	1082	1003
Zinc	ppm	ASTM D5185m	1180	1145	1226	1177
Sulfur	ppm	ASTM D5185m	2600	2849	2980	2971
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	2	3
Sodium	ppm	ASTM D5185m		2	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	9.8	8.1	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	19.2	21.3
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	15.4	17.9
Base Number (BN)	mg KOH/g	ASTM D2896		8.0	9.0	8.3



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	RTIES	method	limit/base	current	history1	history2

	FLUID	JID PROPERTIES		meth	method limit/base		ase	current		history1		history2			
	Visc @ 1	00°C	cSt	ASTM	D445	12.00		11.3		11.4		11.2			
	GRAF	PHS													
25	Iron (p	Iron (ppm)						Lead (ppm)							
20	Severe						80 -	Severe							
E 15	50-						60 ·								
E 10	Abnormal	-				-	40-	Abnormal							
Ĺ	0						20 -								
		Feb16/22 -	Feb1/23 -	Jun20/23 +	Oct17/23	Feb12/24	0-	Mar10/21	Jun24/22	Feb1/23	Jun20/23	Oct17/23	Feb12/24		
		,	量	Junz	Octl	Febl			,		JunZ	Octl	Feb1		
	Alumin	Aluminum (ppm)							Chromium (ppm)						
	Severe						40 -	Severe			-				
mdd	80-						80 · Ed 20 ·								
	Annual Contract of the Contrac							Abnormal							
1	0						10-								
		Feb16/22 - Jun24/22 -	Feb1/23 -	Jun20/23 -	Oct17/23 -	Feb12/24	0-	Mar10/21- Feb16/22 -	Jun24/22	Feb1/23 -	Jun20/23 -	Oct17/23 -	Feb12/24 -		
		,	프	Jun	Oct	윤				<u>a</u>	Jun	Oct	Feb		
40	Copper	(ppm)					80 -	Silicon (ppm)						
30	Severe Abnormal						60 -								
띮 20	00						₩ 40 •								
10	1						20 -	Abnormal							
	0						0.								
		Feb16/22 -	Feb1/23	Jun20/23 -	Oct17/23 -	Feb12/24	0-	Mar10/21- Feb16/22 -	Jun24/22	Feb1/23 -	Jun20/23 -	Oct17/23 -	Feb12/24		
	Mar	Jen Jen	<u>=</u>	- E	Oct	물		Mar	<u> </u>	THE STATE OF THE S	Jun	Oct	물		





Laboratory Sample No.

Unique Number: 10889637

: PCA0118838 Lab Number : 06096784

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

Viscosity @ 100°C

Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

Feb1/23

: 22 Feb 2024 : 23 Feb 2024

Feb12/24

0ct17/23

: 23 Feb 2024 - Wes Davis

39 INDUSTRIAL AVE HASBROUCK HEIGHTS, NJ

Base Number

10.0 (mg KOH/g) 8.0 6.0

Base Number 4.0

0.0

US 07604 Contact: MIKE LONGETTE mlongette@millertransgroup.com

MILLER TRUCK LEASING #119

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) F: (201)528-7053

Report Id: MILRUT [WUSCAR] 06096784 (Generated: 02/23/2024 08:47:23) Rev: 1

Contact/Location: MIKE LONGETTE - MILRUT

T: