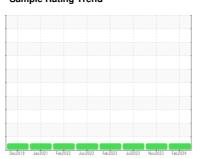


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **595381**

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.

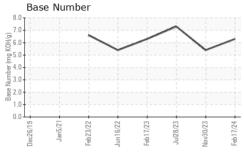
Fluid Condition

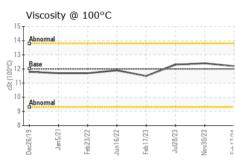
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS)		Dec2019	Jan 2021 Feb 2022 Jun 20	22 Feb 2023 Jul 2023 Nov 2023	Feb2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0118911	PCA0113386	PCA0102995
Sample Date		Client Info		17 Feb 2024	30 Nov 2023	28 Jul 2023
Machine Age	mls	Client Info		0	432476	408569
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	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	34	29	19
Chromium	ppm	ASTM D5185m	>20	2	1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	17	13	11
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	11	8	8
Tin	ppm	ASTM D5185m	>15	2	2	1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	4	4	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	50	65	66	65
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	950	946	973	988
Calcium	ppm	ASTM D5185m	1050	1130	1112	1149
Phosphorus	ppm	ASTM D5185m	995	1001	1033	1015
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1180 2600	1225 2505	1334 2677	1304 3330
CONTAMINAN	ppm	method	limit/base			
Silicon		ASTM D5185m	>25	current 6	history1 8	history2 6
Sodium	ppm	ASTM D5185m	>25	3	2	3
Potassium	ppm	ASTM D5185m	>20	4	6	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	1.3	0.8
Nitration	Abs/cm	*ASTM D7624	>20	8.9	10.6	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	24.2	20.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	20.6	16.7
Base Number (BN)	mg KOH/g	ASTM D2896		6.3	5.4	7.3
,						



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 FROF		memod			HISTOLAL	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	12.00	12.2	12.4	12.3

GRA	PHS															
Iron (ppm)							I	Lead	(ppn	n)					
Severe]]]			1		100	Severe	7						
								00	Ī							
Abnormal	<u> </u>	-	-					E 40	Abnorm	al			<u> </u>			
	i		_				_	20 -								
Dec26/19-	Jan5/21+	3/22 +	122	1/23	3/23	1/23	1/24	0 1	61/6	Jan5/21	3/22	3/22	1/23	3/23	1/23	17.4
7000	Jan	Feb23/22	Jun16/22	Feb17/23	Jul28/23	Nov30/23	Feb17/24	ć	Dec26/19	Jani	Feb23/22	Jun16/22	Feb17/23	Jul28/23	Nov30/23	Feh17/24
Alumir	num (ppm)						50 T	Chro	mium	ı (ppn	n)				
Severe]]]						Severe							
								E 30 -								
Abnormal								30 - 20 -	Abnorm	al						
								10-								
Dec26/19	Jan5/21+	Feb23/22 +	Jun16/22 +	Feb17/23 +	Jul28/23 -	Nov30/23 -	Feb17/24	0 1	Dec26/19 +	Jan5/21-	Feb23/22	Jun16/22	Feb17/23 -	Jul28/23 -	Nov30/23	Feb17/24
	E E	Feb2	Jun	윤	Juľ	Nov	Feb					Jun	Febi	Juľ	Nov	Feb
Coppe		n)							Silico Severe	n (pp	m)					
Severe Abnormal							==	60	Octoic							
								E 40								
								20-	Abnorm	al						
												_				_
Dec26/19	Jan5/21-	Feb23/22	Jun16/22	Feb17/23	Jul28/23 -	Nov30/23 -	Feb17/24		Dec26/19	Jan5/21-	Feb23/22	Jun16/22	Feb17/23	Jul28/23	Nov30/23	Feb17/24
				Febl	Jul	Nov3	Febl		Decz	Jai	Feb2	Jun1	Feb	Jul	Nov3	Feb
Viscos	ity @	100°C	:					8.0-	Base	Num	ber					
Abnormal	i							Base Number (mg KOH/g)						^		
Base				İ	-			y mg k				~				
								Vumbe								
Abnormal								0.0 Base								
ec26/19-	Jan5/21+	eb23/22	- 16/22 -	eb17/23 +	ul28/23 -	00/30/23	eb17/24	U.U 4	61/973a	Jan5/21-	eb23/22 -	- 16/22	eb17/23 +	ul28/23 +	0430/23	eb17/24
ec2	ar	3b2	=	8	ul2	3/3	-8	č	738	Jan	sb2	=	-8	ul2	5/3	-





Laboratory

Sample No. : PCA0118911

Lab Number : 06096760 Unique Number : 10889613

Test Package: MOB 1 (Additional Tests: TBN)

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

: 23 Feb 2024 Diagnosed

: 23 Feb 2024 - Wes Davis

: 22 Feb 2024

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)

MILLER TRUCK LEASING #119

39 INDUSTRIAL AVE HASBROUCK HEIGHTS, NJ US 07604

Contact: MIKE LONGETTE

mlongette@millertransgroup.com T:

F: (201)528-7053

Report Id: MILRUT [WUSCAR] 06096760 (Generated: 02/23/2024 08:48:45) Rev: 1

Contact/Location: MIKE LONGETTE - MILRUT