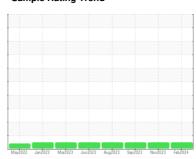


OIL ANALYSIS REPORT

Sample Rating Trend







SJB700

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.

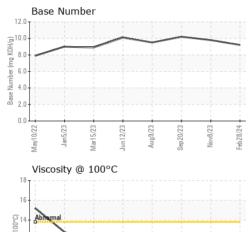
Fluid Condition

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

QTS) Miny2022 Jan2023 Mar2023 Junz023 Aug/2023 Siny2023 Finy2024 Finy2024									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		PCA0116893	PCA0105802	PCA0100900			
Sample Date		Client Info		28 Feb 2024	08 Nov 2023	20 Sep 2023			
Machine Age	mls	Client Info		0	131263	121801			
Oil Age	mls	Client Info		0	9462	8792			
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			
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	21	14	15			
Chromium	ppm	ASTM D5185m	>20	<1	1	<1			
Nickel	ppm	ASTM D5185m	>4	0	0	0			
Titanium	ppm	ASTM D5185m		<1	0	0			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	3	2	3			
Lead	ppm	ASTM D5185m	>40	2	0	2			
Copper	ppm	ASTM D5185m		2	0	<1			
Tin	ppm	ASTM D5185m	>15	1	0	<1			
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	5	1	3			
Barium	ppm	ASTM D5185m	0	2	4	0			
Molybdenum	ppm	ASTM D5185m	50	66	67	57			
Manganese	ppm	ASTM D5185m	0	<1	0	<1			
Magnesium	ppm	ASTM D5185m	950	884	888	894			
Calcium	ppm	ASTM D5185m	1050	1196	1220	1258			
Phosphorus	ppm	ASTM D5185m	995	1022	1058	901			
Zinc	ppm	ASTM D5185m	1180	1196	1244	1233			
Sulfur	ppm	ASTM D5185m	2600	3153	3496	3254			
CONTAMINAN		method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	4	0	3			
Sodium	ppm	ASTM D5185m	00	0	0	3			
Potassium	ppm	ASTM D5185m		3	0	2			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	1.1	1.5	1.4			
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.6	9.2			
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	20.7	20.8			
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	15.7	15.5			
Base Number (BN)	mg KOH/g	ASTM D2896		9.2	9.8	10.2			



OIL ANALYSIS REPORT



VISUAL		method				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/hase	current	history1	history2

Viso	cosity (@ 100	°C				
16							
3014 - Abin 3014 - Base							-
रहें 12 - Base		~				-	-
10 - Abno	ormal						
12 8	23	23	- 22	- 22		23	-
May10/22	Jan5/23	Mar15/23	Jun12/2	Aug9/23	Sep20/23	Nov8/23	A 28 A
Σ		2	7		S		

	FLUID PROPERTIES		method		limit/	limit/base		current		history1		history2				
١	Visc @ 100°C cSt		ASTM D445 12.00			11.3			11.6		11.9					
	GRAPH															
250	Iron (ppm	1)						100		d (ppr	n)					
200	Severe							80	Severe	9			-	-		
돌 ¹⁵⁰ 100	Abnormal							Ed 40	Abno	mal						
-100 50								40 - 20 -	0							
0	3	3	3+		3	23		0	2	3			60			4
	May10/22 - Jan5/23 -	Mar15/23	Jun12/23	Aug9/23	Sep20/23	Nov8/23	Feb28/24		May10/22	Jan5/23	Mar15/23	Jun12/23	Aug9/23	Sep20/23	Nov8/23	Feb28/24
	Aluminum (ppm)								Chromium (ppm)							
50 40	Severe		1			1		50 40	Severe	e .		1]		
E 30								E 30								
	Abnormal							20	Abno	rmal						
10		_		_				10-	_							
	May10/22 Jan5/23	Mar15/23	Jun12/23	Aug9/23	Sep20/23	Nov8/23	Feb28/24 -		May10/22	Jan5/23	Mar15/23	Jun12/23	Aug9/23 -	Sep20/23	Nov8/23	Feb28/24
	≤ Copper (p		η̈́	A	S	Z	-B			on (pp		η̈	A	S	Z	굔
400		, ,						80			,,,,					
300	-							60								
틆 200								E 40	Abno	rmal						
100								20	_	_						
0	May10/22 -	Mar15/23 -	Jun12/23	Aug9/23 -	Sep20/23 -	Nov8/23	Feb28/24	0	May10/22	Jan5/23 +	Mar15/23 +	Jun12/23	Aug9/23 +	Sep20/23	Nov8/23	Feb28/24
	2			Aug	Sep2	Nov	Feb2					Jun	Aug	Sep2	Nov	Feb2
18	Viscosity (_12.0	Base	e Num	ber											
16								Base Number (mg KOH/g) 9.09 4.00 4.00 5.09		_		_			_	_
() ₀ 14 12	Abnormal Base						-	mper (m								
10	Abnormal	\sim						Fig. 4.0								
8	Li	23	23	23	23	23	24	0.0	22	23	52	23	23	73	- 23	24
	May10/22 Jan5/23	Mar15/23	Jun12/23	Aug9/23 -	Sep20/23	Nov8/23	Feb28/24 -		May10/22	Jan5/23 ·	Mar15/23	Jun12/23	Aug9/23	Sep20/23	Nov8/23	Feb28/24





Laboratory

Lab Number : 06124537 Unique Number : 10938688

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : PCA0116893

Received **Tested**

: 21 Mar 2024 : 21 Mar 2024 Diagnosed

: 21 Mar 2024 - 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.

Contact: ED DAVIS edavis@millertransgroup.com T: (856)214-3521

MILLER TRUCK LEASING #114

63 REPAUPO STATION ROAD

LOGAN TOWNSHIP, NJ

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: ED DAVIS - MILLOG

F: (856)214-3663

US 08085