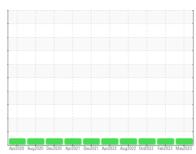


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **405451**

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.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

Fluid Condition

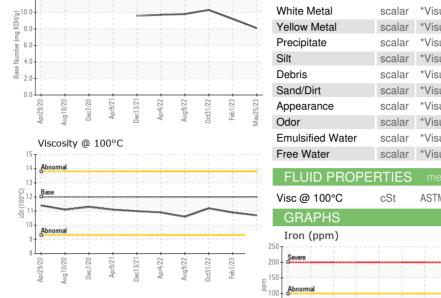
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

April 2020 August 20 Dec 2020 April 2021 April 2022 August 20 Dec 2021 April 2022 August 2022 August 20 Dec 2021 April 2022 August 20 Dec 2021 April 2022 August 20 Dec 2021 April 2022 August 2021 April 2022 August 2022 Aug						
SAMPLE INFORI	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0097728	PCA0090037	PCA0079756
Sample Date		Client Info		25 May 2023	01 Feb 2023	31 Oct 2022
Machine Age	mls	Client Info		42917	39301	32280
Oil Age	mls	Client Info		0	10000	32280
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	5	6	6
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	4	3
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	3	4	12
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	2	22	14	24
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	50	67	66	68
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	760	871	813
Calcium	ppm	ASTM D5185m	1050	1095	1198	1194
Phosphorus	ppm	ASTM D5185m	995	953	1039	1028
Zinc	ppm	ASTM D5185m	1180	1098	1269	1213
Sulfur	ppm	ASTM D5185m	2600	2905	3317	4100
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	3	3	4
Sodium	ppm	ASTM D5185m		0	3	1
Potassium	ppm	ASTM D5185m	>20	3	3	7
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.7	7.7	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	18.8	20.6
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Ovidation	Abs/.1mm	*ASTM D7414	>25	17.1	15.0	16.0
Oxidation	AU3/. 1111111	AOTIVI DI TIT	/20	17.1	13.0	16.0



Base Number

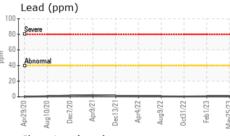
OIL ANALYSIS REPORT

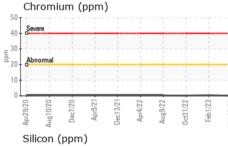


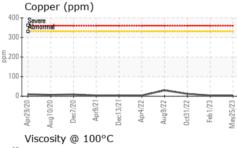
VISUAL		method			history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	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	history 1	history 2

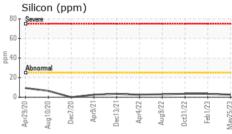
I LOID I NOI	LITTLO	method			Thistory I	ilistory 2
Visc @ 100°C	cSt	ASTM D445	12.00	10.7	10.9	11.2

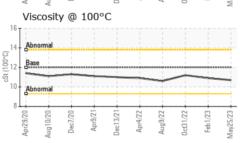
G .	L/ VI	110								
Iroi	n (pį	om)								
200 Seve	re									
150										
150 - Abno	ormal									
50										
والم	_	+		_	-	=		-		
Apr29/20	Aug10/20	Dec7/20	Apr9/21	Dec13/21	Apr4/22	Aug9/22	Oct31/22	Feb1/23	May25/23	
	minu	ım (ı	ppm))						
Seve	re	-		Ī		1				
30 - Abno	ormal									
10		-		\wedge						

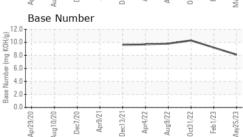














Certificate L2367

Laboratory Sample No. **Lab Number Unique Number**

: 10539176

: PCA0097728 : 05888693

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

: 03 Jul 2023 : 05 Jul 2023

Diagnostician : Wes Davis Test Package : MOB 1 (Additional Tests: TBN)

63 REPAUPO STATION ROAD LOGAN TOWNSHIP, NJ US 08085 Contact: ED DAVIS edavis@millertransgroup.com

Contact/Location: ED DAVIS - MILLOG

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.

T: (856)214-3521 F: (856)214-3663

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