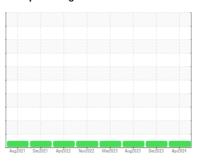


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 112646

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

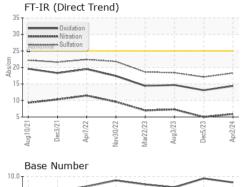
## **Fluid Condition**

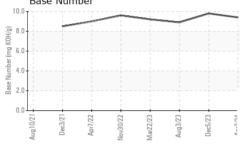
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

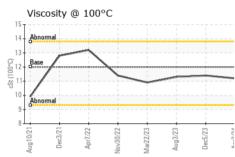
QIS)		Aug2021	Dec2021 Apr2022 Nov20	22 Mar2023 Aug2023 Dec2023	Apr2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0118865	PCA0113337	PCA0103038
Sample Date		Client Info		02 Apr 2024	05 Dec 2023	03 Aug 2023
Machine Age	mls	Client Info		27313	21932	21997
Oil Age	mls	Client Info		0	0	0
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	10	7	13
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	<1
Lead	ppm	ASTM D5185m	>40	0	0	1
Copper	ppm	ASTM D5185m	>330	11	19	7
Tin	ppm	ASTM D5185m	>15	0	0	<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	6	29	10
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	50	66	62	63
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	950	1034	863	957
Calcium	ppm	ASTM D5185m		1231	1175	1167
Phosphorus	ppm	ASTM D5185m	995	1178	1061	1038
Zinc	ppm	ASTM D5185m	1180	1346	1269	1287
Sulfur	ppm	ASTM D5185m	2600	4072	3345	3748
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	4
Sodium	ppm	ASTM D5185m		0	<1	2
Potassium	ppm	ASTM D5185m	>20	0	<1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.4
Nitration	Abs/cm	*ASTM D7624		5.9	5.0	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	17.1	18.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	13.1	14.7
Base Number (BN)	mg KOH/g	ASTM D2896		9.4	9.8	8.9



# **OIL ANALYSIS REPORT**



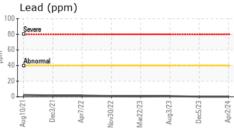


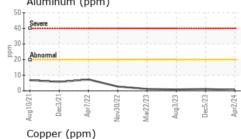


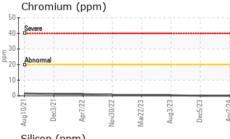
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

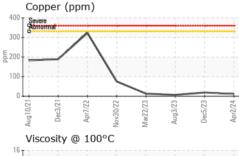
FLUID PROP	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	12.00	11.2	11.4	11.3

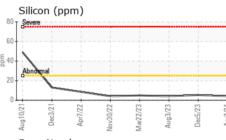
250	n (ppn	n) 					
Seve	re						
150							
Abn	ormal						
100 - 4011							
50-							
210	21	22	7	23	23	23	24
210	Dec3/21	Apr7/22 -	0v30/22	ar22/23	Aug3/23	Dec5/23	Apr2/24
Aug10/21	Dec3/21	n (ppn	Nov30/22	Mar22/23	Aug3/23 -	Dec5/23	Apr2/24

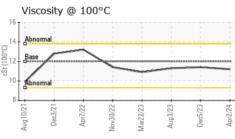


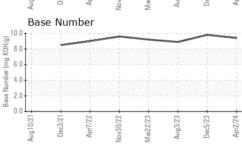
















Certificate 12367

Laboratory Sample No.

: PCA0118865 Lab Number : 06142731 Unique Number : 10967539

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 Apr 2024 **Tested** 

: 09 Apr 2024 Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

: 09 Apr 2024 - Wes Davis

US 07604 Contact: MIKE LONGETTE mlongette@millertransgroup.com T:

**MILLER TRUCK LEASING #119** 

HASBROUCK HEIGHTS, NJ

39 INDUSTRIAL AVE

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 Contact/Location: MIKE LONGETTE - MILRUT