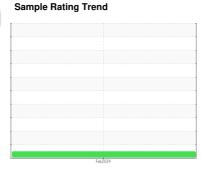


OIL ANALYSIS REPORT

DT



NORMAL



Machine Id 121591

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

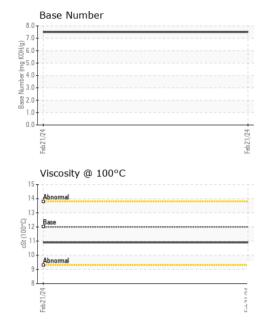
Fluid Condition

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

QTS)						
				Feb 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0118903		
Sample Date		Client Info		21 Feb 2024		
Machine Age	mls	Client Info		23899		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	72		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	12		
Lead	ppm	ASTM D5185m	>40	2		
Copper	ppm	ASTM D5185m	>330	81		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	16		
Barium	ppm	ASTM D5185m	0	2		
Molybdenum	ppm	ASTM D5185m	50	54		
Manganese	ppm	ASTM D5185m	0	1		
Magnesium	ppm	ASTM D5185m	950	747		
Calcium	ppm	ASTM D5185m	1050	1103		
Phosphorus	ppm	ASTM D5185m	995	901		
Zinc	ppm	ASTM D5185m	1180	1104		
Sulfur	ppm	ASTM D5185m	2600	2961		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6		
Nitration	Abs/cm	*ASTM D7624	>20	9.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8		
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0		
Base Number (BN)	mg KOH/g	ASTM D2896		7.5		
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OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	10.9		
GRAPHS						

Visc @ 100°C	cSt	ASTM D445	12.00	10.9	
GRAPHS					
Iron (ppm)				Lead (ppm)	
250 Severe				80 Severe	
E 150				E 60-	
Abnormal	*******			40 Abnormal	
50				20	
Feb21/24			Feb21/24	- Feb21/24	Feb21/24
			윤		Feb
Aluminum (ppm)				Chromium (ppm)	
40 Severe				40 Severe	
Abnormal				Abnormal	
10				10	-
0				0	
Feb21/24			Feb21/24	Feb21/24	Feb 21/24
ு Copper (ppm)			æ	ு Silicon (ppm)	7
400 Severe Publication				80 Severe	
300				60 -	
E 200				Abnormal	
100				20	
0 1 24 0			24	0 +52	
Feb21/24			Feb21/24	Feb21/24	Feb 21/24
Viscosity @ 100°C				Base Number	
16 14 Abnormal				0.8	
14 - Abnormal) 6.0 +	
Base				8 Base Number (mg KOH/o)	
Abnormal				2.0 +	
Feb21/24			Feb21/24	Feb 21/24 + 0.0.0	Feb21/24 +
Feb 2			Feb2	Feb 2	Feb 2
: WearCheck USA - 50	1 Madiso	n Ave., Cary	, NC 27	513 MILLER 1	RUCK LEASING #119





Laboratory Sample No.

Unique Number : 10928083

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0118903 Lab Number : 06119250

Received **Tested** Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 15 Mar 2024 : 15 Mar 2024

: 15 Mar 2024 - Wes Davis

HASBROUCK HEIGHTS, NJ US 07604 Contact: MIKE LONGETTE mlongette@millertransgroup.com

Contact/Location: MIKE LONGETTE - MILRUT

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

T:

39 INDUSTRIAL AVE