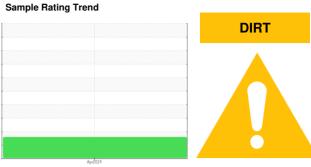


# **OIL ANALYSIS REPORT**

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Machine Id **438344** 

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (--- GAL)

## DIAGNOSIS

## Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components.

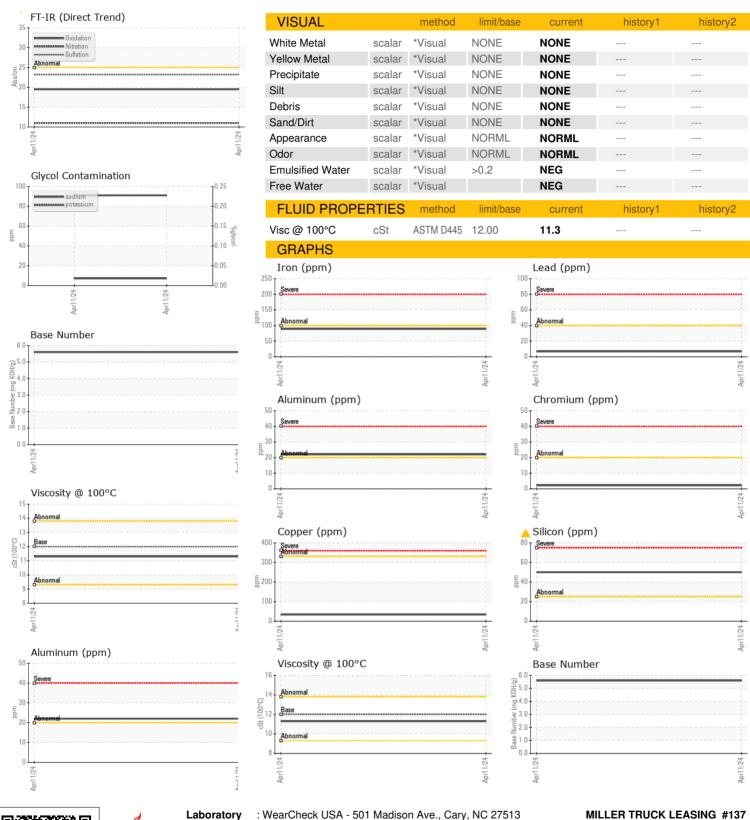
### **Fluid Condition**

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

		1				
AL)				Apr2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	IVII (TIOI)	Client Info	minu bass	PCA0112752		
Sample Number		Client Info		11 Apr 2024		
Sample Date	mls	Client Info		21168		
Machine Age	mls	Client Info		0		
Oil Age Oil Changed	IIIIS			Changed		
		Client Info		ABNORMAL		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0		
Vater		WC Method	>0.2	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	89		
Chromium	ppm	ASTM D5185m	>20	2		
lickel	ppm	ASTM D5185m	>4	0		
- itanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Numinum	ppm	ASTM D5185m	>20	22		
.ead	ppm	ASTM D5185m	>40	7		
Copper	ppm	ASTM D5185m	>330	34		
in	ppm	ASTM D5185m	>15	4		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	50		
Barium	ppm	ASTM D5185m	0	9		
Nolybdenum	ppm	ASTM D5185m	50	12		
Manganese	ppm	ASTM D5185m	0	8		
//agnesium	ppm	ASTM D5185m	950	763		
Calcium	ppm	ASTM D5185m	1050	1342		
Phosphorus		ASTM D5185m	995	743		
inc	ppm	ASTM D5185m	1180	870		
Sulfur	ppm	ASTM D5185m	2600	3274		
CONTAMINAN		method	limit/base	current	history1	history2
Silicon		ASTM D5185m				
Sodium	ppm		>25	▲ 50 7		
	ppm	ASTM D5185m	- 20			
Potassium	ppm %	*ASTM D2982	>20	91 NEG		
Slycol	/0					
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	11.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2		
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5		
Base Number (BN)	mg KOH/g	ASTM D2896		5.6		



# **OIL ANALYSIS REPORT**







Certificate 12367

Sample No.

Lab Number : 06155742

: PCA0112752 Unique Number : 10991165

Received : 22 Apr 2024 **Tested** Diagnosed

: 24 Apr 2024 Test Package : MOB 1 ( Additional Tests: Glycol, TBN )

: 24 Apr 2024 - Don Baldridge

US 10509 Contact: Robert Beckhusen rbeckhusen@millertransgroup.com T: (845)779-1064

To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - 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) Report Id: MILBRENY [WUSCAR] 06155742 (Generated: 04/24/2024 13:29:42) Rev: 1

Contact/Location: Robert Beckhusen - MILBRENY

361 ROUTE 312

BREWSTER, NY