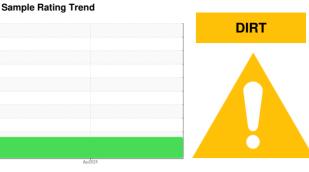


# **OIL ANALYSIS REPORT**



Machine Id 438340

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (--- G

## **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.

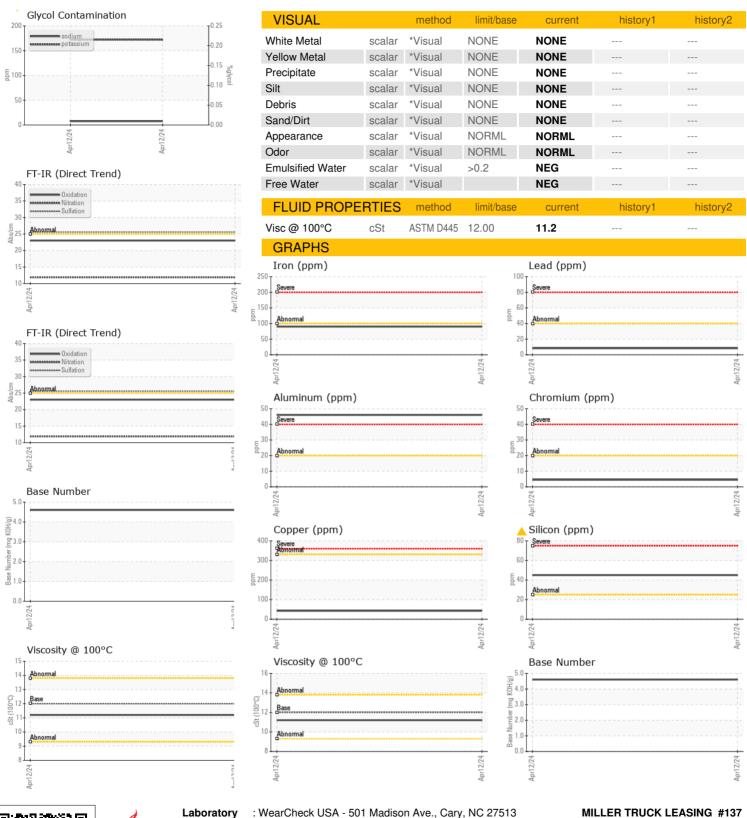
### **Fluid Condition**

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.

GAL)				Apr2024		
SAMPLE INFORM	<u>ΛΔΤΙΩΝΙ</u>	method	limit/base	current	history1	history2
	//ATION		III III Dasc			
Sample Number		Client Info		PCA0112757		
Sample Date	and a	Client Info		12 Apr 2024		
Machine Age	mls	Client Info		38440		
Oil Age	mls	Client Info		O Changed		
Oil Changed		Cilent inio		Changed ABNORMAL		
Sample Status	011					
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	90		
Chromium	ppm	ASTM D5185m	>20	4		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	46		
Lead	ppm	ASTM D5185m	>40	8		
Copper	ppm	ASTM D5185m	>330	43		
Tin	ppm	ASTM D5185m	>15	4		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	31		
Barium	ppm	ASTM D5185m	0	7		
Molybdenum	ppm	ASTM D5185m	50	16		
Manganese	ppm	ASTM D5185m	0	7		
Magnesium	ppm	ASTM D5185m	950	799		
Calcium	ppm	ASTM D5185m	1050	1364		
Phosphorus	ppm	ASTM D5185m	995	757		
Zinc	ppm	ASTM D5185m	1180	896		
Sulfur	ppm	ASTM D5185m	2600	3160		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>45</b>		
Sodium	ppm	ASTM D5185m		8		
Potassium	ppm	ASTM D5185m	>20	172		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5		
Nitration	Abs/cm	*ASTM D7624	>20	11.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.6		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.0		
	mg KOH/g	ASTM D2896		4.6		
( )	33					



# **OIL ANALYSIS REPORT**





Certificate 12367

Laboratory Sample No.

: PCA0112757

Lab Number : 06155733 Unique Number: 10991156

Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

Received

**Tested** 

: 22 Apr 2024

: 23 Apr 2024

: 24 Apr 2024 - Don Baldridge

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)

**MILLER TRUCK LEASING #137** 

361 ROUTE 312 BREWSTER, NY

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