

# **OIL ANALYSIS REPORT**



#### Machine Id BM-221 Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (10 GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a components first oil change.

#### Contamination

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. There is no indication of any contamination in the oil.

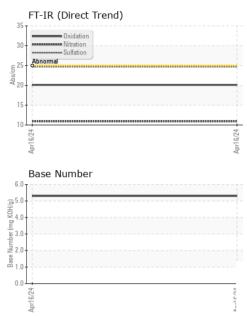
## Fluid Condition

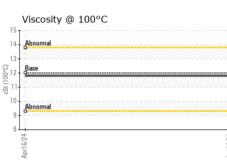
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)				Apicola		
SAMPLE INFOF	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0117783		
Sample Date		Client Info		16 Apr 2024		
Machine Age	mls	Client Info		24963		
Oil Age	mls	Client Info		24963		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method	, 0.1	NEG		
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WEAR METAL		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	51		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	23		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	15		
Tin	ppm	ASTM D5185m	>15	1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	20		
Barium	ppm	ASTM D5185m	0	<1		
Molybdenum	ppm	ASTM D5185m	50	14		
Manganese	ppm	ASTM D5185m	0	2		
Magnesium	ppm	ASTM D5185m	950	853		
Calcium	ppm	ASTM D5185m	1050	1427		
Phosphorus	ppm	ASTM D5185m	995	852		
Zinc	ppm	ASTM D5185m	1180	987		
Sulfur	ppm	ASTM D5185m	2600	3401		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	63		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624		10.9		
Sulfation	Abs/.1mm	*ASTM D7415		24.7		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1		
Base Number (BN)	mg KOH/g	ASTM D2896	-	5.3		



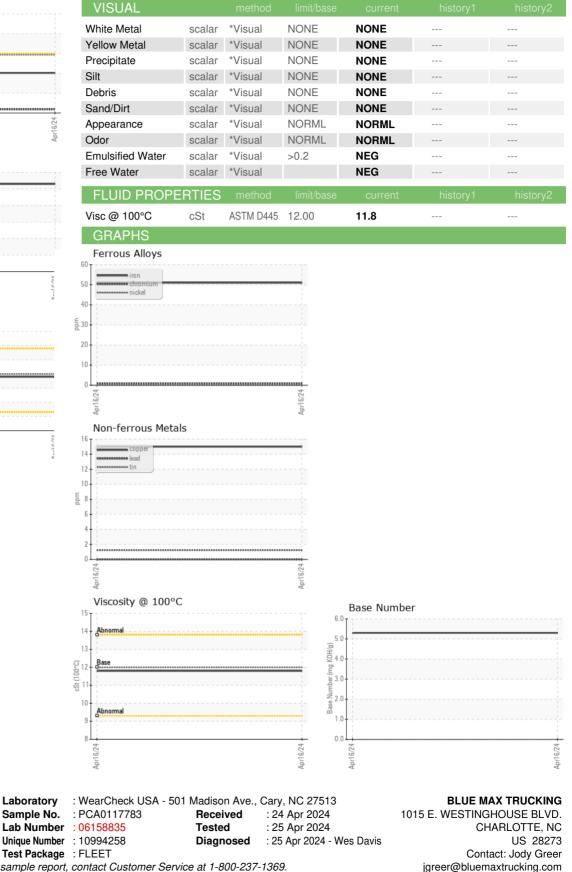
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Certificate 12367

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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)

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