

# **OIL ANALYSIS REPORT**

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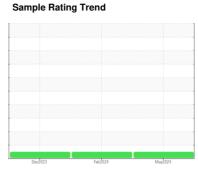
## NORMAL



(P1021267) Dixon Transport-Tractor [Dixon Transport-Tractor] 325A325528

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (11 GAL)





## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

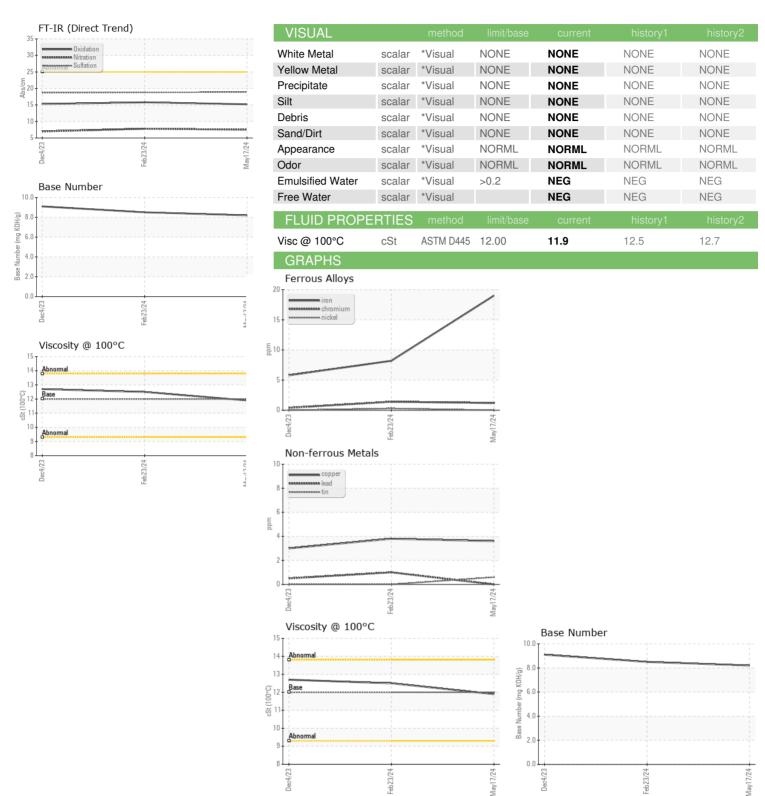
### **Fluid Condition**

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

Sample Date	history2 A011431 Dec 2023
Sample Date	Dec 2023
Machine Age mls Client Info 318116 301059 297   Oil Age mls Client Info 17057 7459 360   Oil Changed Client Info Not Changd Changed No   Sample Status NORMAL NORMAL NORMAL NO   CONTAMINATION method limit/base current history1   Fuel WC Method >5 <1.0 <1.0   Water WC Method >0.2 NEG NEG   Glycol WC Method NEG NEG NEG   WEAR METALS method limit/base current history1   Iron ppm ASTM D5185m >80 19 8 6   WEAR METALS method limit/base current history1 1	
Machine Age mls Client Info 318116 301059 297   Oil Age mls Client Info 17057 7459 360   Oil Changed Client Info Not Changd Changed No   Sample Status NORMAL NORMAL NORMAL NO   CONTAMINATION method limit/base current history1   Fuel WC Method >5 <1.0	7201
Oil Changed Sample Status Client Info Not Changd NORMAL No Changed NorMAL No Change NorMAL <th< td=""><td>∠U I</td></th<>	∠U I
Sample Status	)1
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Fuel WC Method >5 <1.0 <1.0   Water WC Method NEG NEG   Glycol WC Method NEG NEG   WEAR METALS method limit/base current history1   Iron ppm ASTM D5185m >80 19 8 6   Chromium ppm ASTM D5185m >5 1 1 1   Nickel ppm ASTM D5185m >2 0 <1	RMAL
Water WC Method >0.2 NEG NEG   Glycol WC Method NEG NEG   WEAR METALS method limit/base current history1   Iron ppm ASTM D5185m >80 19 8   Chromium ppm ASTM D5185m >5 1 1   Nickel ppm ASTM D5185m >2 0 <1 1   Silver ppm ASTM D5185m >3 0 0 <1 1   Silver ppm ASTM D5185m >30 6 6 6 2 2   Aluminum ppm ASTM D5185m >30 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 1 0 0 0	history2
WEAR METALS method limit/base current history1   Iron ppm ASTM D5185m >80 19 8   Chromium ppm ASTM D5185m >5 1 1   Nickel ppm ASTM D5185m >2 0 <1	<1.0
WEAR METALS method limit/base current history1   Iron ppm ASTM D5185m >80 19 8   Chromium ppm ASTM D5185m >5 1 1   Nickel ppm ASTM D5185m >2 0 <1	NEG
Iron	NEG
Chromium ppm ASTM D5185m >5 1 1   Nickel ppm ASTM D5185m >2 0 <1	history2
Nickel ppm ASTM D5185m >2 0 <1   Titanium ppm ASTM D5185m 0 <1	6
Titanium ppm ASTM D5185m 0 <1   Silver ppm ASTM D5185m >3 0 0   Aluminum ppm ASTM D5185m >30 6 6   Lead ppm ASTM D5185m >30 0 1   Copper ppm ASTM D5185m >150 4 4 4   Tin ppm ASTM D5185m >5 <1	<1
Silver ppm ASTM D5185m >3 0 0   Aluminum ppm ASTM D5185m >30 6 6   Lead ppm ASTM D5185m >30 0 1   Copper ppm ASTM D5185m >150 4 4 4   Tin ppm ASTM D5185m >5 <1 0 0   Vanadium ppm ASTM D5185m 0 <1 0 <1   Cadmium ppm ASTM D5185m 0 <1 0 <1   ADDITIVES method limit/base current history1   Boron ppm ASTM D5185m 2 5 2   Barium ppm ASTM D5185m 2 5 2   Barium ppm ASTM D5185m 0 0 0 0   Molybdenum ppm ASTM D5185m 0 <1 <1 1   Magnesium ppm ASTM D5185m 0	0
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Lead ppm ASTM D5185m >30 0 1   Copper ppm ASTM D5185m >150 4 4   Tin ppm ASTM D5185m >5 <1 0   Vanadium ppm ASTM D5185m 0 <1   Cadmium ppm ASTM D5185m 0 <1   ADDITIVES method limit/base current history1   Boron ppm ASTM D5185m 2 5 2   Barium ppm ASTM D5185m 0 0 0   Molybdenum ppm ASTM D5185m 50 59 62 5   Manganese ppm ASTM D5185m 0 <1 <1 1   Magnesium ppm ASTM D5185m 950 994 1130   Calcium ppm ASTM D5185m 1050 1058 1208   Phosphorus ppm ASTM D5185m 1180 1290 1469   Sulfur <th< td=""><td>0</td></th<>	0
Copper ppm ASTM D5185m >150 4 4   Tin ppm ASTM D5185m >5 <1	2
Tin ppm ASTM D5185m >5 <1 0   Vanadium ppm ASTM D5185m 0 <1   Cadmium ppm ASTM D5185m 0 <1   ADDITIVES method limit/base current history1   Boron ppm ASTM D5185m 2 5 2   Barium ppm ASTM D5185m 0 0 0   Molybdenum ppm ASTM D5185m 50 59 62   Manganese ppm ASTM D5185m 0 <1 <1   Magnesium ppm ASTM D5185m 950 994 1130   Calcium ppm ASTM D5185m 1050 1058 1208   Phosphorus ppm ASTM D5185m 1180 1290 1469   Sulfur ppm ASTM D5185m 2600 3539 3479	<1
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Cadmium ppm ASTM D5185m 0 <1   ADDITIVES method limit/base current history1   Boron ppm ASTM D5185m 2 5 2   Barium ppm ASTM D5185m 0 0 0   Molybdenum ppm ASTM D5185m 50 59 62 9   Manganese ppm ASTM D5185m 0 <1	0
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Boron ppm ASTM D5185m 2 5 2   Barium ppm ASTM D5185m 0 0 0 0   Molybdenum ppm ASTM D5185m 50 59 62 9   Manganese ppm ASTM D5185m 0 <1 <1 0   Magnesium ppm ASTM D5185m 950 994 1130 1130   Calcium ppm ASTM D5185m 1050 1058 1208   Phosphorus ppm ASTM D5185m 995 1114 1174   Zinc ppm ASTM D5185m 1180 1290 1469   Sulfur ppm ASTM D5185m 2600 3539 3479	0
Barium ppm ASTM D5185m 0 0 0   Molybdenum ppm ASTM D5185m 50 59 62   Manganese ppm ASTM D5185m 0 <1	history2
Molybdenum ppm ASTM D5185m 50 59 62   Manganese ppm ASTM D5185m 0 <1 <1   Magnesium ppm ASTM D5185m 950 994 1130   Calcium ppm ASTM D5185m 1050 1058 1208   Phosphorus ppm ASTM D5185m 995 1114 1174   Zinc ppm ASTM D5185m 1180 1290 1469   Sulfur ppm ASTM D5185m 2600 3539 3479	1
Manganese ppm ASTM D5185m 0 <1 <1   Magnesium ppm ASTM D5185m 950 994 1130   Calcium ppm ASTM D5185m 1050 1058 1208   Phosphorus ppm ASTM D5185m 995 1114 1174   Zinc ppm ASTM D5185m 1180 1290 1469   Sulfur ppm ASTM D5185m 2600 3539 3479	0
Magnesium ppm ASTM D5185m 950 994 1130   Calcium ppm ASTM D5185m 1050 1058 1208   Phosphorus ppm ASTM D5185m 995 1114 1174   Zinc ppm ASTM D5185m 1180 1290 1469   Sulfur ppm ASTM D5185m 2600 3539 3479	56
Calcium ppm ASTM D5185m 1050 1058 1208   Phosphorus ppm ASTM D5185m 995 1114 1174   Zinc ppm ASTM D5185m 1180 1290 1469   Sulfur ppm ASTM D5185m 2600 3539 3479	0
Phosphorus ppm ASTM D5185m 995 1114 1174   Zinc ppm ASTM D5185m 1180 1290 1469   Sulfur ppm ASTM D5185m 2600 3539 3479	1052
Zinc ppm ASTM D5185m 1180 1290 1469   Sulfur ppm ASTM D5185m 2600 3539 3479	1157
Sulfur ppm ASTM D5185m 2600 3539 3479	1145
	1253
CONTAMINANTS method limit/base current history1	3179
	history2
PP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4
	0
Potassium ppm ASTM D5185m >20 <b>0</b> 2	<1
INFRA-RED method limit/base current history1	history2
Soot %	0.2
Nitration Abs/cm *ASTM D7624 >20 7.5 7.8	7.0
Sulfation Abs/.1mm *ASTM D7415 >30 18.9 18.8	18.7
FLUID DEGRADATION method limit/base current history1	history2
Oxidation Abs/.1mm *ASTM D7414 >25 <b>15.2</b> 15.8	. = 0
Base Number (BN) mg KOH/g ASTM D2896 8.2 8.5	15.3



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: PCA0121228 Lab Number : 06196231 Unique Number : 11058354

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024 **Tested** : 03 Jun 2024

Diagnosed : 03 Jun 2024 - Wes Davis

Transervice - Shop 3250 - Dixon Transport 1124 E. River Road Dixon, IL US 61021

Contact: Mike Shoemaker Shop3250@transervice.com

 $^st$  - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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