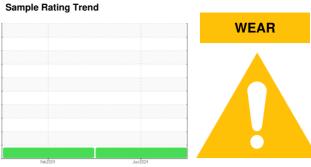


# **OIL ANALYSIS REPORT**



Machine Id 341314

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- 0

## **DIAGNOSIS**

#### Recommendation

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

### Wear

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

#### 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. No other contaminants were detected in the oil.

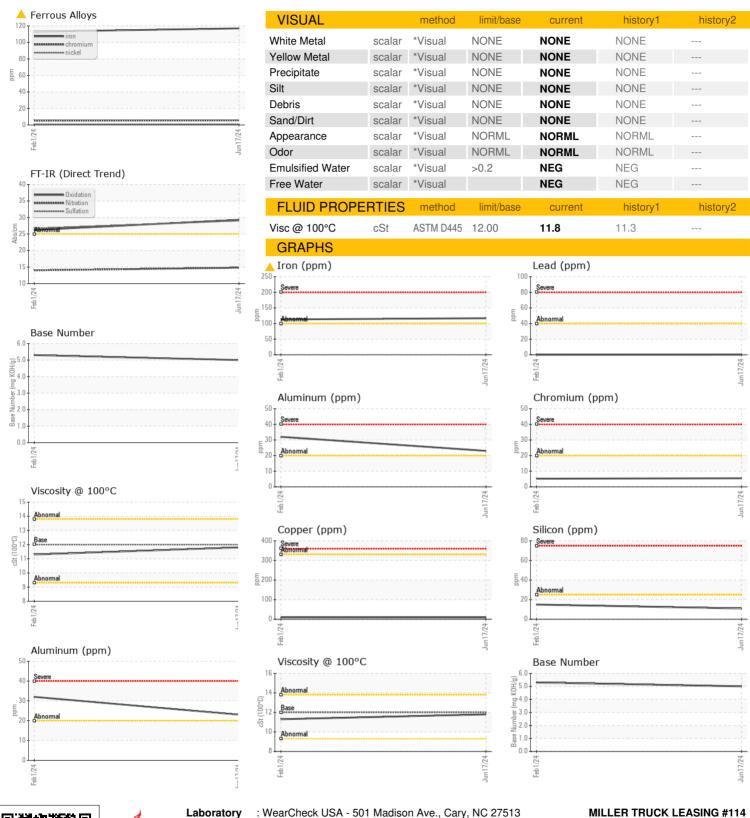
### **Fluid Condition**

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.

NTS)		L	Feb 2024	Jun2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0121001	PCA0113664	
Sample Date		Client Info		17 Jun 2024	01 Feb 2024	
Machine Age	mls	Client Info		93682	63443	
Oil Age	mls	Client Info		30239	31331	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINAT	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<u> </u>	<u> </u>	
Chromium	ppm	ASTM D5185m	>20	6	5	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>20	23	32	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	10	10	
Tin	ppm	ASTM D5185m	>15	1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	6	
Barium	ppm	ASTM D5185m	0	<1	2	
Molybdenum	ppm	ASTM D5185m	50	68	74	
Manganese	ppm	ASTM D5185m	0	2	2	
Magnesium	ppm	ASTM D5185m	950	929	904	
Calcium	ppm	ASTM D5185m	1050	1116	1262	
Phosphorus	ppm	ASTM D5185m	995	970	1019	
Zinc	ppm	ASTM D5185m		1206	1218	
Sulfur	ppm	ASTM D5185m		2323	2943	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	15	
Sodium	ppm	ASTM D5185m		0	<1	
Potassium	ppm	ASTM D5185m	>20	44	66	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.6	1.2	
Nitration	Abs/cm	*ASTM D7624		14.8	14.0	
Sulfation	Abs/.1mm	*ASTM D7415		29.0	26.7	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	29.3	26.2	
Base Number (BN)	mg KOH/g		<i>/L</i> 0	5.0	5.3	
Dase Mullipel (DIV)	ing NOD/g	70 LINI DZ030		5.0	0.0	



## **OIL ANALYSIS REPORT**





Certificate 12367

Laboratory Sample No.

Lab Number

: PCA0121001 : 06225996 Unique Number : 11109489

Received : 02 Jul 2024 **Tested** : 03 Jul 2024 Diagnosed

: 03 Jul 2024 - Angela Borella

Test Package : MOB 1 ( Additional Tests: TBN ) 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 #114** 

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