

**OIL ANALYSIS REPORT** 

Sample Rating Trend **DEGRADATION** 

Machine Id 471078

Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- 0

## DIAGNOSIS

### Recommendation

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

All component wear rates are normal.

# Contamination

There is an abnormal amount of solids and carbon present in the oil.

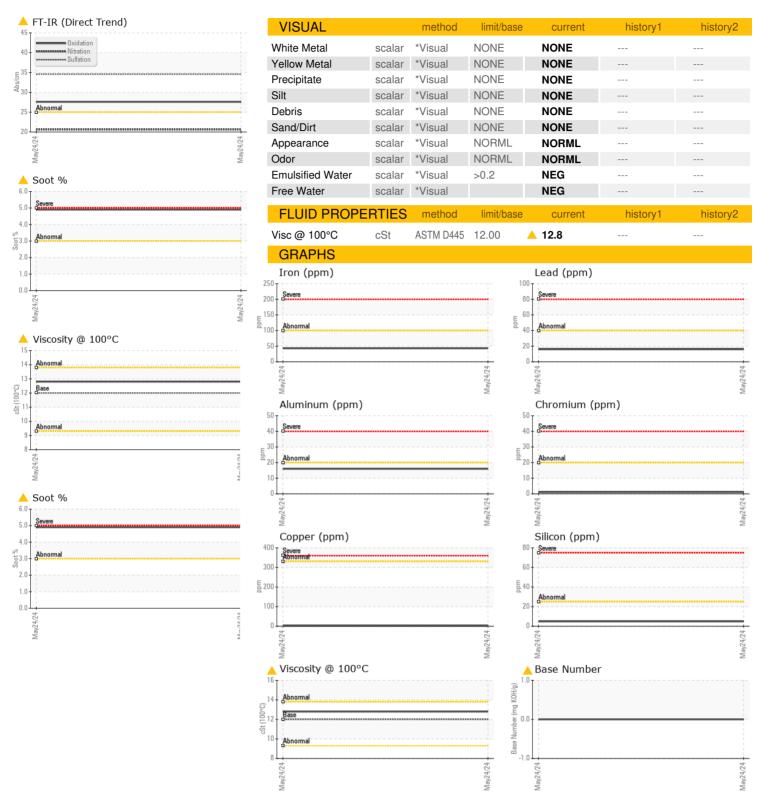
### Fluid Condition

The oil viscosity is higher than normal. The BN level

TS)				May2024		
10,						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0121067		
Sample Date		Client Info		24 May 2024		
Machine Age	mls	Client Info		224126		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	TON	method	limit/base	current	history1	history2
-uel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	43		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>4	0		
Γitanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	16		
_ead	ppm	ASTM D5185m	>40	16		
Copper	ppm	ASTM D5185m	>330	2		
Γin	ppm	ASTM D5185m	>15	<1		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	3		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	68		
Manganese	ppm	ASTM D5185m	0	1		
Magnesium	ppm	ASTM D5185m	950	935		
Calcium	ppm	ASTM D5185m	1050	1303		
Phosphorus	ppm	ASTM D5185m	995	1051		
Zinc	ppm	ASTM D5185m	1180	1302		
Sulfur	ppm	ASTM D5185m	2600	3400		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5		
Sodium	ppm	ASTM D5185m		16		
Potassium	ppm	ASTM D5185m	>20	10		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>4.9</b>		
Nitration	Abs/cm	*ASTM D7624	>20	20.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	34.6		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.6		
Base Number (BN)	mg KOH/g	ASTM D2896		△ 0.0		
o (DI4)						



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06202466 Unique Number : 11069927

: PCA0121067

Received : 07 Jun 2024 **Tested** Diagnosed

: 11 Jun 2024 : 11 Jun 2024 - Jonathan Hester

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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