

# **PROBLEM SUMMARY**

Sample Rating Trend

DIRT

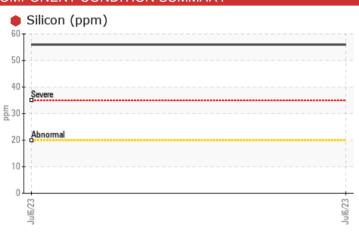
# FREIGHTLINER 25

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (13 LTR)

### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE					
Silicon	ppm	ASTM D5185m	>20	<b>•</b> 56					

Customer Id: ATRPIN
Sample No.: PCA0100618
Lab Number: 05897869
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.			

# HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

Sample Rating Trend



# **FREIGHTLINER 25**

Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (13

#### **DIAGNOSIS**

#### Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

Elemental level of silicon (Si) above normal.

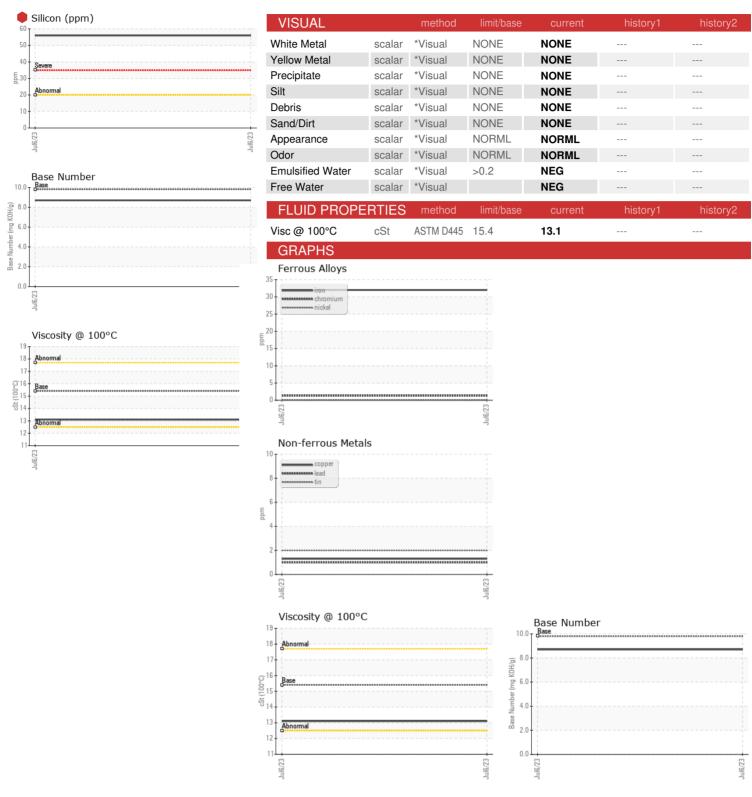
#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

LTR)				Jul2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0100618		
Sample Date		Client Info		06 Jul 2023		
Machine Age	mls	Client Info		385330		
Oil Age	mls	Client Info		27983		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron		ASTM D5185m	>80	32		
Chromium	ppm	ASTM D5185m	>60 >5	1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m		2		
Lead	ppm	ASTM D5185m	>30	1		
Copper	ppm	ASTM D5185m		1		
Tin	ppm	ASTM D5185m	>5	2		
Vanadium	ppm	ASTM D5185m	>5	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	59		
Manganese	ppm	ASTM D5185m	0	3		
Magnesium	ppm	ASTM D5185m	1010	830		
Calcium	ppm	ASTM D5185m	1070	1123		
Phosphorus	ppm	ASTM D5185m	1150	1001		
Zinc	ppm	ASTM D5185m	1270	1172		
Sulfur	ppm	ASTM D5185m	2060	3277		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>5</b> 6		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.6		
Nitration	Abs/cm	*ASTM D7624	>20	7.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6		
Base Number (BN)	mg KOH/g			8.7		
Dase Nulliber (DIV)	my Normy	HOTIVI DZ030	5.0	0.7		



## **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number Unique Number Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0100618 : 05897869

: 10559225

Received Diagnosed Diagnostician

: 13 Jul 2023 : 17 Jul 2023 : Don Baldridge

A Truck Repair 9349 China Grove Church Road Pineville, NC US 28134

Contact: Vlad Melnichuk shop@migway.com T: (980)255-3200

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)