

PROBLEM SUMMARY

Sample Rating Trend

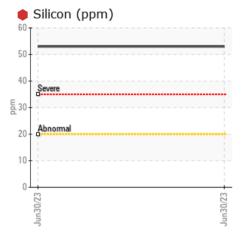


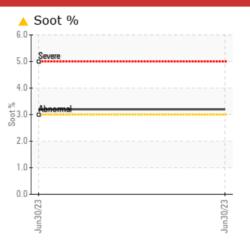
FREIGHTLINER 57

Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (13 LTR)

COMPONENT CONDITION SUMMARY





Ferrous Alloys

RECOMMENDATION

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			
Iron	ppm	ASTM D5185m	>80	A 105			
Chromium	ppm	ASTM D5185m	>5	1 0			
Silicon	ppm	ASTM D5185m	>20	6 53			
Soot %	%	*ASTM D7844	>3	3.2			

Customer Id: ATRPIN Sample No.: PCA0100689 Lab Number: 05897861 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



FREIGHTLINER 57

Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (13 LTR)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

🔺 Wear

Ring and cylinder wear is indicated.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. There is an abnormal amount of solids and carbon present in the oil.

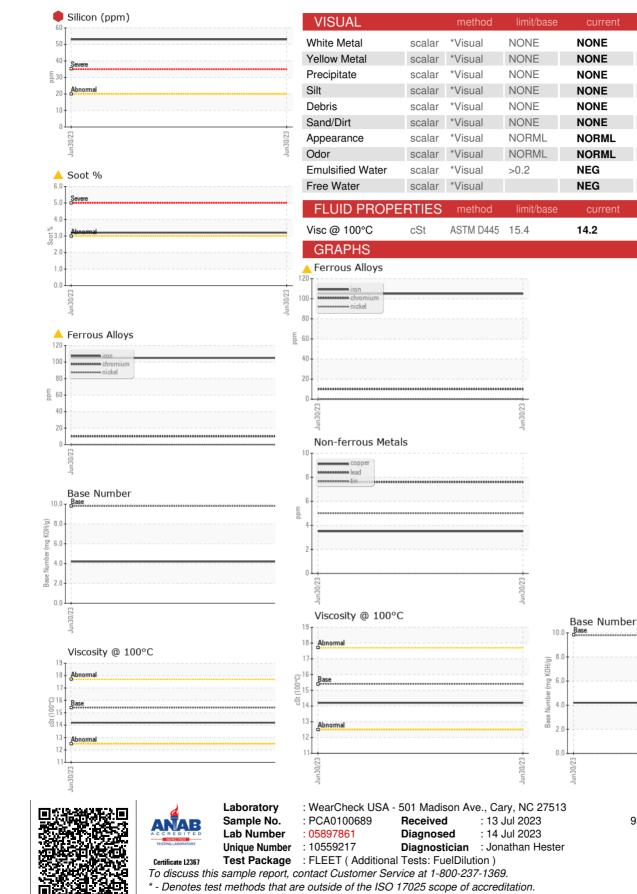
Fluid Condition

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.

in)		r		Jun2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0100689		
Sample Date		Client Info		30 Jun 2023		
Machine Age	mls	Client Info		585110		
Oil Age	mls	Client Info		30260		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	人 105		
Chromium	ppm	ASTM D5185m	>5	<u> </u>		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	3		
Lead	ppm	ASTM D5185m	>30	8		
Copper	ppm	ASTM D5185m	>150	4		
Tin	ppm	ASTM D5185m	>5	5		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	57		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	1010	795		
Calcium	ppm	ASTM D5185m	1070	1193		
Phosphorus	ppm	ASTM D5185m	1150	966		
Zinc	ppm	ASTM D5185m	1270	1163		
Sulfur	ppm	ASTM D5185m	2060	2942		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	e 53		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	2		
Fuel	%	ASTM D3524	>5	<1.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	3 .2		
Nitration	Abs/cm	*ASTM D7624	>20	11.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.8		
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.0		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.2		



OIL ANALYSIS REPORT



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

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