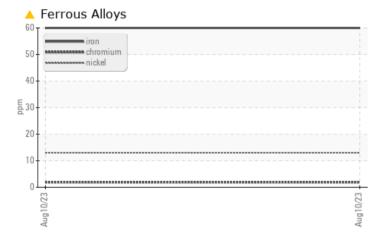


PETRO CANADA DURON SHP 15W40 (--- GAL)

Machine Id 713023 Component Diesel Engine

Fluic

COMPONENT CONDITION SUMMARY



▲ Viscosity @ 100°C

19.		1
18	Abnormal	i -
17		i.
16	Base	1
() 0015 14 13 13		
은14·		1
び13・ 12	Abnormal	
11-		
10		
9.	Aug10/23 -	- c7/n1BnH

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESU	LTS
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Sample Status		ABNORMAL	 		
Nickel	ppm	ASTM D5185m	>4	1 3	
Visc @ 100°C	cSt	ASTM D445	15.4	10.5	

Customer Id: GFL622 Sample No.: GFL0090499 Lab Number: 05925356 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 <u>customerservice@wearcheck.com</u>

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.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id 713023

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

A Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

🔺 Wear

The nickel level is abnormal. All other metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

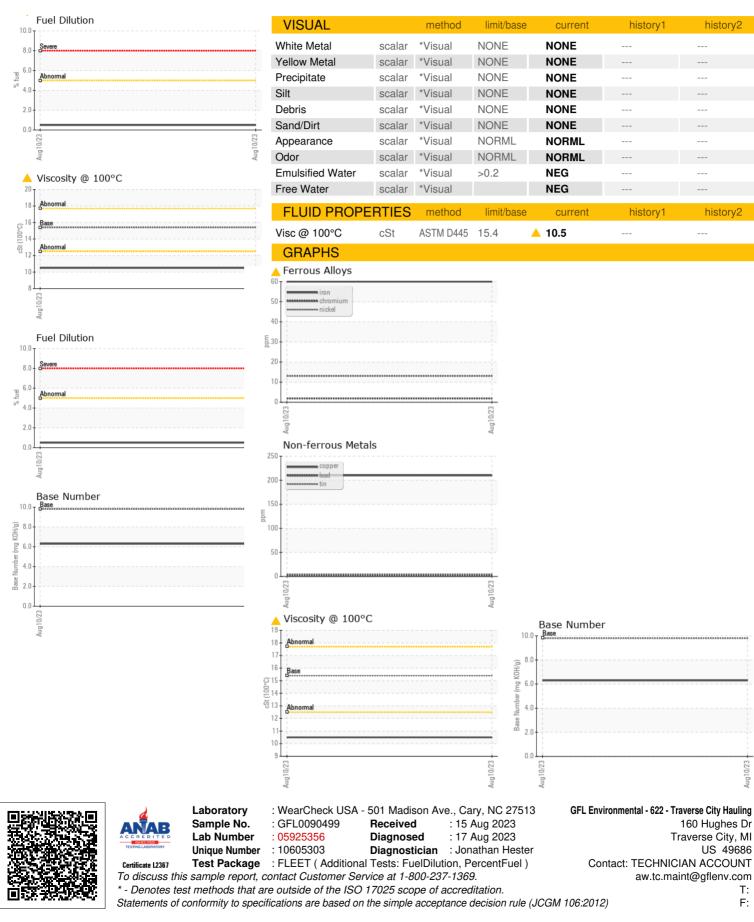
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

,				Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090499		
Sample Date		Client Info		10 Aug 2023		
Machine Age	hrs	Client Info		903		
Oil Age	hrs	Client Info		610		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	60		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	A 13		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	1		
Aluminum	ppm	ASTM D5185m	>20	6		
∟ead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	210		
Tin	ppm	ASTM D5185m	>15	5		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	110		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	109		
Manganese	ppm		0	6		
Magnesium	ppm	ASTM D5185m	1010	763		
Calcium	ppm	ASTM D5185m	1070	1420		
Phosphorus	ppm	ASTM D5185m	1150	705		
Zinc	ppm	ASTM D5185m	1270	876		
Sulfur	ppm	ASTM D5185m	2060	2557		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	62		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	6		
Fuel	%	ASTM D3524	>5	0.5		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	11.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.0		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
		****	05			
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.6		



OIL ANALYSIS REPORT



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F: