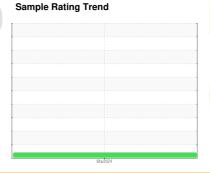


OIL ANALYSIS REPORT



Machine Id 914037 Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

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

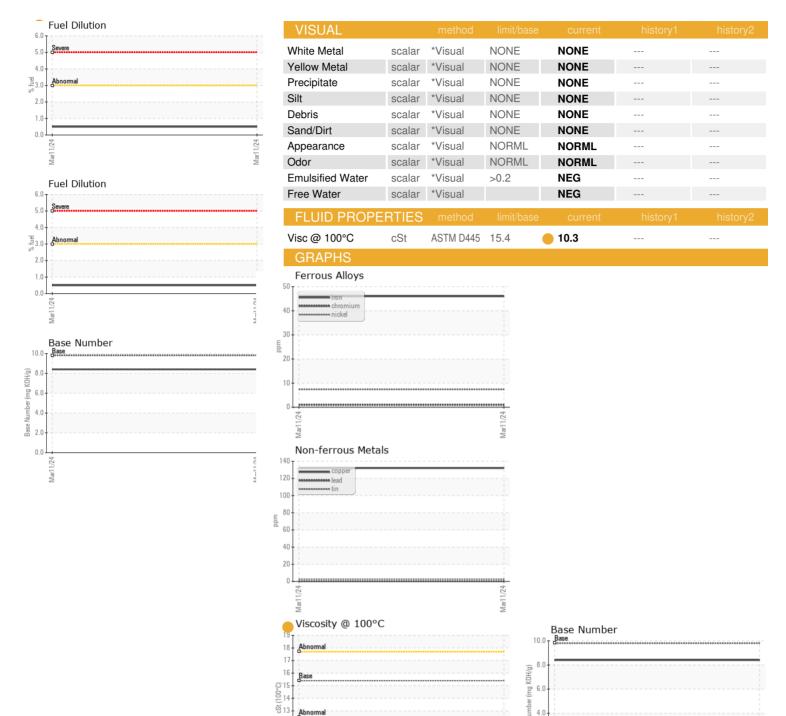
Fluid Condition

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

N SHP 15W40 (GAL)			Mar2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084804		
Sample Date		Client Info		11 Mar 2024		
Machine Age	hrs	Client Info		532		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ATTENTION		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	46		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>5	7		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>20	5		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	132		
Tin	ppm	ASTM D5185m	>15	3		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	245		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	110		
Manganese	ppm	ASTM D5185m	0	6		
Magnesium	ppm	ASTM D5185m	1010	699		
Calcium	ppm	ASTM D5185m	1070	1511		
Phosphorus	ppm	ASTM D5185m	1150	793		
Zinc	ppm	ASTM D5185m	1270	929		
Sulfur	ppm	ASTM D5185m	2060	2507		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	54		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	7		
Fuel	%	ASTM D3524	>3.0	0.5		
INFRA-RED		method	limit/base	current	history1	history2
INFRA-RED Soot %	%	method *ASTM D7844	limit/base >4	current 0.3	history1	history2
					history1	history2
Soot %	%	*ASTM D7844	>4	0.3		
Soot % Nitration	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>4 >20	0.3 9.1		
Soot % Nitration Sulfation FLUID DEGRAI	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415 method	>4 >20 >30 limit/base	0.3 9.1 24.2 current	 	
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415 method *ASTM D7414	>4 >20 >30 limit/base >25	0.3 9.1 24.2	 	 history2



OIL ANALYSIS REPORT







Laboratory Sample No.

: GFL0084804 Lab Number : 06125500 **Unique Number** : 10939651

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

Mar11/24

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

Tested Diagnosed

: 21 Mar 2024 : 26 Mar 2024

Mar11/24

: 26 Mar 2024 - Jonathan Hester

Base

0.0

GFL Environmental - 959A - Urbana HC 4808 cunningham Rd Urbana, IL

US 61802 Contact: Kristine Tryon Ktryon@gflenv.com

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)

T:

F: