

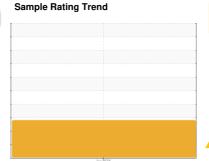
OIL ANALYSIS REPORT



GFL035 834021 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (42 QTS)





DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life. recommend schedule an oil change. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

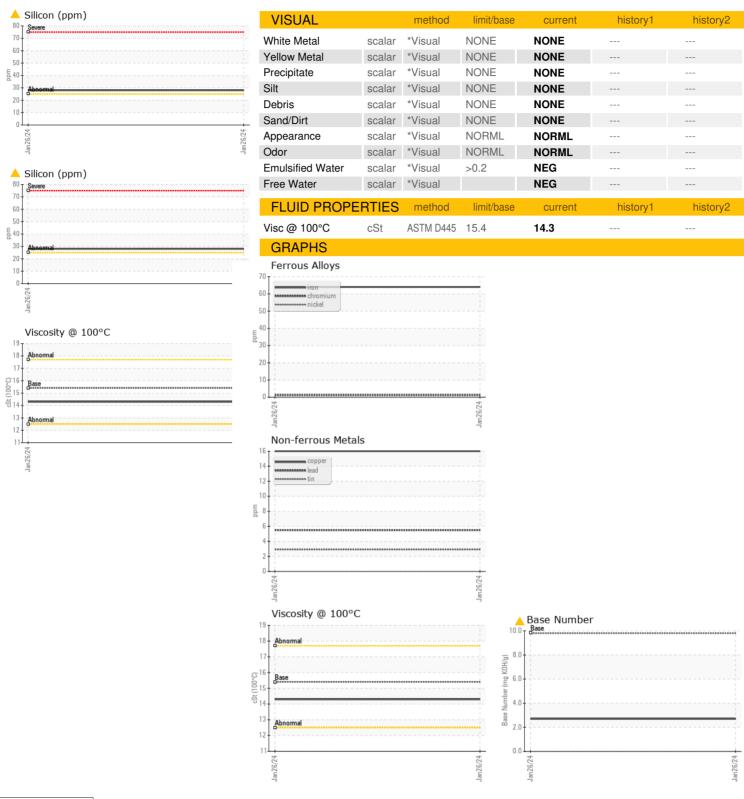
▲ Fluid Condition

The BN level is low.

N SHP 15W40 (42	2 Q (S)			Jan 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102341		
Sample Date		Client Info		26 Jan 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		600		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
<i>N</i> ater		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	3	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	64		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>5	2		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>20	5		
_ead	ppm	ASTM D5185m	>40	6		
Copper	ppm	ASTM D5185m	>330	16		
Γin	ppm	ASTM D5185m	>15	3		
√anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5		
Barium	ppm	ASTM D5185m	0	3		
Molybdenum	ppm	ASTM D5185m	60	61		
Manganese	ppm	ASTM D5185m	0	13		
Magnesium	ppm	ASTM D5185m	1010	832		
Calcium	ppm	ASTM D5185m	1070	1426		
Phosphorus	ppm	ASTM D5185m	1150	804		
Zinc	ppm	ASTM D5185m	1270	996		
Sulfur	ppm	ASTM D5185m	2060	2256		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<u>^</u> 28		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	7		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0		
Vitration	Abs/cm	*ASTM D7624	>20	14.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.3		
Sulfation FLUID DEGRAD			>30 limit/base	27.3 current	history1	history2
Sulfation FLUID DEGRAD Oxidation						



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Laboratory Sample No. Lab Number Unique Number

: GFL0102341 : 06072657 : 10849334

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 29 Jan 2024 Recieved Diagnosed : 31 Jan 2024

: Sean Felton Diagnostician

Test Package : FLEET Certificate L2367 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)

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