

OIL ANALYSIS REPORT



Machine Id

915019

Diesel Engine Fluid

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

DIAGNOSIS

Recommendation

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

Wear

Metal levels are typical for a new component breaking in.

Contamination

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

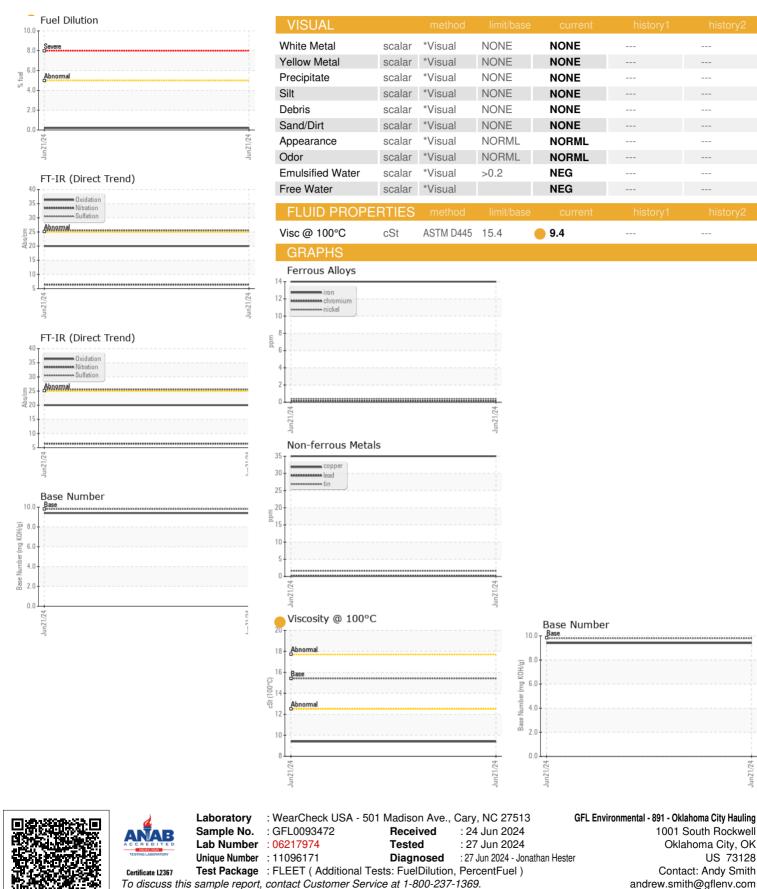
Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093472		
Sample Date		Client Info		21 Jun 2024		
Machine Age	hrs	Client Info		122		
Oil Age	hrs	Client Info		122		
Oil Changed		Client Info		Not Changd		
Sample Status				ATTENTION		
CONTAMINATIO		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	14		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	1		
Aluminum	ppm	ASTM D5185m	>20	6		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	35		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	354		
Barium	ppm	ASTM D5185m	0	<1		
Molybdenum	ppm	ASTM D5185m	60	121		
	ppm	ASTM D5185m	0	4		
Magnesium	ppm	ASTM D5185m	1010	694		
Calcium	ppm	ASTM D5185m	1070	1557		
Phosphorus	ppm	ASTM D5185m	1150	736		
Zinc	ppm	ASTM D5185m	1270	870		
Sulfur	ppm	ASTM D5185m	2060	2940		
CONTAMINANT	ſS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	60		
	ppm	ASTM D5185m	- 10	3		
	ppm	ASTM D5185m	>20	12		
Fuel	%	ASTM D3524		0.2		
					history1	history?
INFRA-RED	24	method	limit/base	current	history1	history2
	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624		6.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.4		



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* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

1001 South Rockwell Oklahoma City, OK US 73128 Contact: Andy Smith andrew.smith@gflenv.com T: (405)306-1651 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) E:

Contact/Location: Andy Smith - GFL891

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