

OIL ANALYSIS REPORT



Component Diesel Engine

Machine Id

Fluid

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

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

🔺 Wear

The nickel level is abnormal. All other component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a moderate amount of fuel present in the oil.

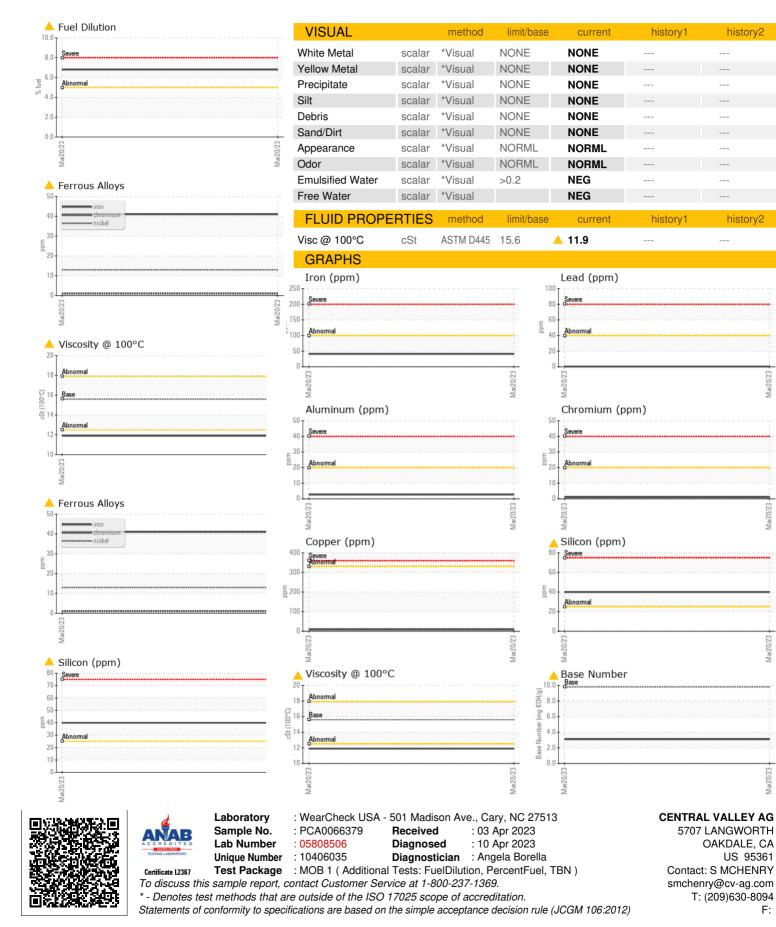
Fluid Condition

The oil viscosity is lower than normal. The BN level is low. Fuel is present in the oil and is lowering the viscosity.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0066379		
Sample Date		Client Info		20 Mar 2023		
Machine Age	hrs	Client Info		17872		
Oil Age	hrs	Client Info		908		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
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	>100	41		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>4	1 3		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	3		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	9		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		2		
Molybdenum	ppm	ASTM D5185m		55		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m		805		
Calcium	ppm	ASTM D5185m		1082		
Phosphorus	ppm	ASTM D5185m		837		
Zinc	ppm	ASTM D5185m		1106		
Sulfur	ppm	ASTM D5185m		2584		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	40		
Sodium	ppm	ASTM D5185m		8		
Potassium	ppm	ASTM D5185m	>20	3		
Fuel	%	ASTM D3524	>5	<mark>/</mark> 6.8		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	11.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.7		
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	33.3		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	A 3.1		



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Contact/Location: S MCHENRY - CENOAK

US 95361

F:

history2

historv2