

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 421041

Component Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

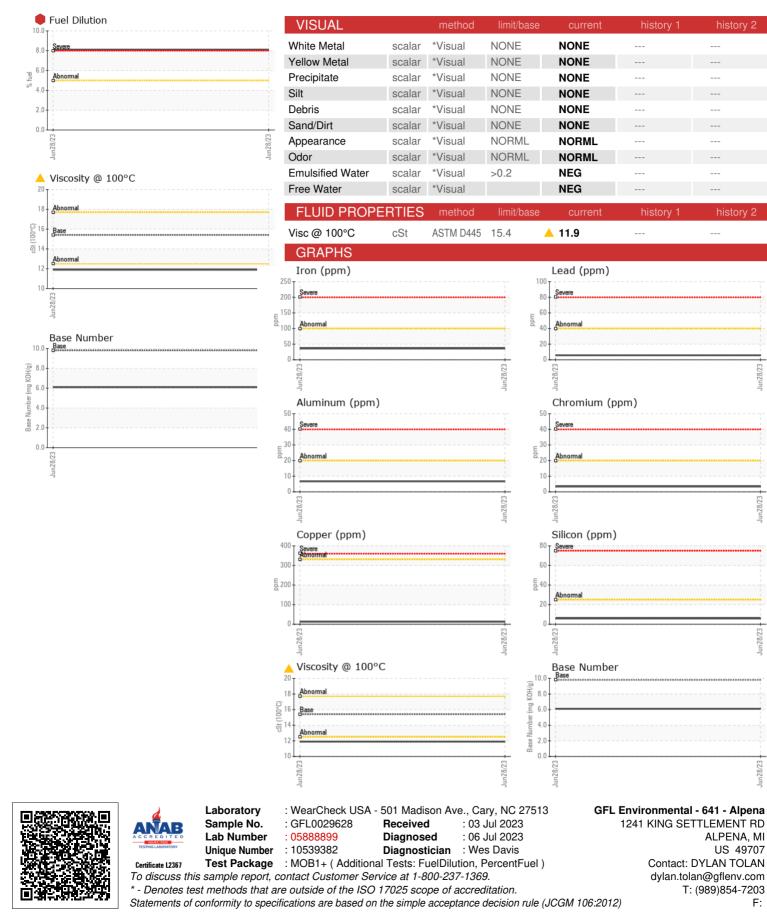
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

AL)				Jun2023		
SAMPLE INFOF	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0029628		
Sample Date		Client Info		28 Jun 2023		
Machine Age	mls	Client Info		0		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
CONTAMINAT	TION	method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	36		
Chromium	ppm	ASTM D5185m	>20	3		
Nickel	ppm	ASTM D5185m	>4	1		
Titanium	ppm	ASTM D5185m		2		
Silver	ppm	ASTM D5185m	>3	2		
Aluminum	ppm	ASTM D5185m	>20	7		
Lead	ppm	ASTM D5185m	>40	6		
Copper	ppm	ASTM D5185m	>330	13		
Tin	ppm	ASTM D5185m	>15	3		
Vanadium	ppm	ASTM D5185m		1		
Cadmium	ppm	ASTM D5185m		2		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	60		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	4		
Manganese	ppm	ASTM D5185m	0	2		
Magnesium	ppm	ASTM D5185m	1010	113		
Calcium	ppm	ASTM D5185m	1070	1910		
Phosphorus	ppm	ASTM D5185m	1150	769		
Zinc	ppm	ASTM D5185m	1270	1003		
Sulfur	ppm	ASTM D5185m	2060	3433		
CONTAMINAN	NTS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	6		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	11		
Fuel	%	ASTM D3524	>5	e 8.1		
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.5		
Nitration	Abs/cm	*ASTM D7624	>20	11.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9		
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.7		



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