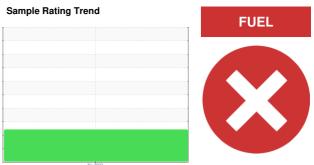






Diesel Engine

PETRO CANADA DURO



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

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

N SHP 15W40 (- GAL)			Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102877		
Sample Date		Client Info		30 Nov 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	25		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)	>2	63		
Silver	ppm	ASTM D5185(m)	>2	<1		
Aluminum	ppm	ASTM D5185(m)	>20	2		
Lead	ppm	ASTM D5185(m)	>40	<1		
Copper	ppm	ASTM D5185(m)	>330	2		
Tin	ppm	ASTM D5185(m)	>15	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		<1		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	78		
Barium	ppm	ASTM D5185(m)	0	<1		
Molybdenum	ppm	ASTM D5185(m)	60	<1		
Manganese	ppm	ASTM D5185(m)	0	0		
Magnesium	ppm	ASTM D5185(m)	1010	283		
Calcium	ppm	ASTM D5185(m)	1070	1670		
Phosphorus	ppm	ASTM D5185(m)	1150	879		
Zinc	ppm	ASTM D5185(m)	1270	1058		
Sulfur	ppm	ASTM D5185(m)	2060	2818		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7		
Sodium	ppm	ASTM D5185(m)		3		
Potassium	ppm	ASTM D5185(m)	>20	2		
Fuel	%	ASTM D7593*	>3.0	6.5		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	1.8		
Nitration	Abs/cm	ASTM D7624*	>20	10.6		
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.7		



OIL ANALYSIS REPORT





ISO 17025:2017
Accredited
Laboratory

Laboratory Sample No. Lab Number Unique Number

 : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
 GFL Environmental - 246 - Windsor

 : GFL0102877
 Received
 : 05 Dec 2023
 2700 Deziel Dr

 : 02600899
 Diagnosed
 : 06 Dec 2023
 Windsor, ON

 : 5693984
 Diagnostician
 : Wes Davis
 CA N8W 5H8

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

2700 Deziel Dr Windsor, ON CA N8W 5H8 Contact: Dave Varga dvarga@gflenv.com T: (519)944-8009