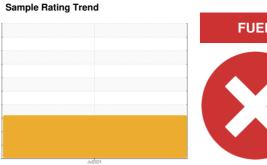


OIL ANALYSIS REPORT



Machine Id 218010

Diesel Engine

PETRO CANADA DURON SAE 15W40 (--- 0

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.

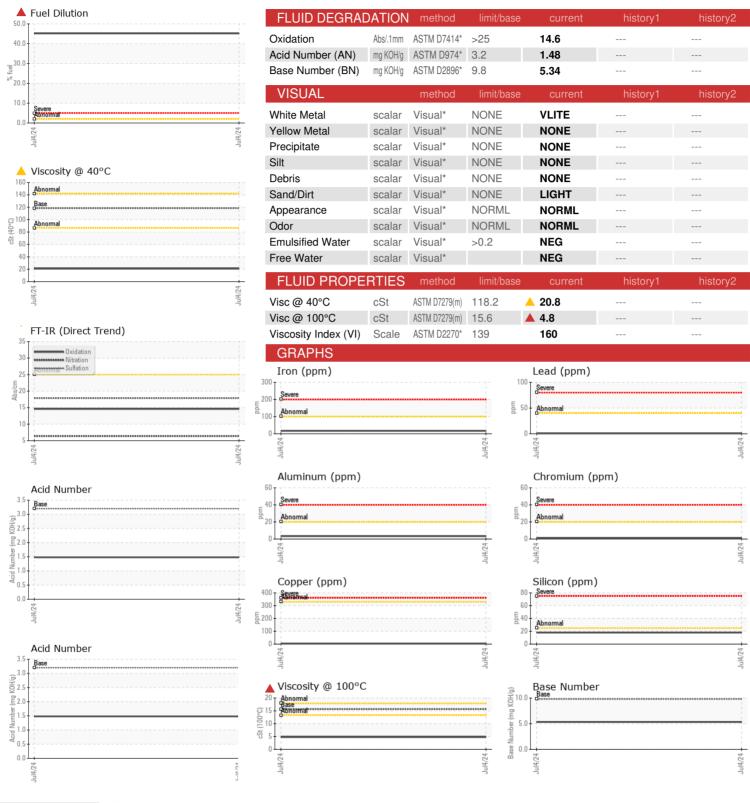
▲ Fluid Condition

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 AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

AL)				Jul2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112448		
Sample Date		Client Info		04 Jul 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				SEVERE		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	17		
Chromium	ppm	ASTM D5185(m)	>20	1		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	3		
Lead	ppm	ASTM D5185(m)	>40	<1		
Copper	ppm	ASTM D5185(m)	>330	4		
Tin	ppm	ASTM D5185(m)	>15	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	4		
Barium	ppm	ASTM D5185(m)	1	<1		
Molybdenum	ppm	ASTM D5185(m)	60	32		
Manganese	ppm	ASTM D5185(m)	1	<1		
Magnesium	ppm	ASTM D5185(m)	1010	548		
Calcium	ppm	ASTM D5185(m)	1070	621		
Phosphorus	ppm	ASTM D5185(m)	1150	586		
Zinc	ppm	ASTM D5185(m)	1270	655		
Sulfur	ppm	ASTM D5185(m)	2060	1365		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	18		
Sodium	ppm	ASTM D5185(m)		4		
Potassium	ppm	ASTM D5185(m)	>20	1		
Fuel	%	ASTM D7593*	>2.0	45.2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	6.4		
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.8		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: GFL0112448

: 02645725 Unique Number : 5803264

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County Received : 05 Jul 2024

Tested : 08 Jul 2024 Diagnosed

: 08 Jul 2024 - Wes Davis

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1**

Test Package : MOB 2 (Additional Tests: FuelDilution, KV40, PercentFuel, TAN Auto, TAN Man, VI, Visuabintact: GFL Calgary To discuss this sample report, contact Customer Service at 1-800-268-2131.

calgarymaintenance@gflenv.com T:

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.

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