

OIL ANALYSIS REPORT

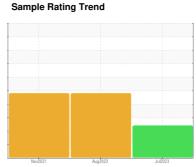
GLYCOL

NEW HOLLAND CR9090 2011CR9090

Component

Diesel Engine

PETRO CANADA DURON UHP 5W40 (27 LTR)





DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Test for glycol is positive. Light fuel dilution occurring. There is a moderate concentration of glycol present in the oil. No other contaminants were detected in the oil.

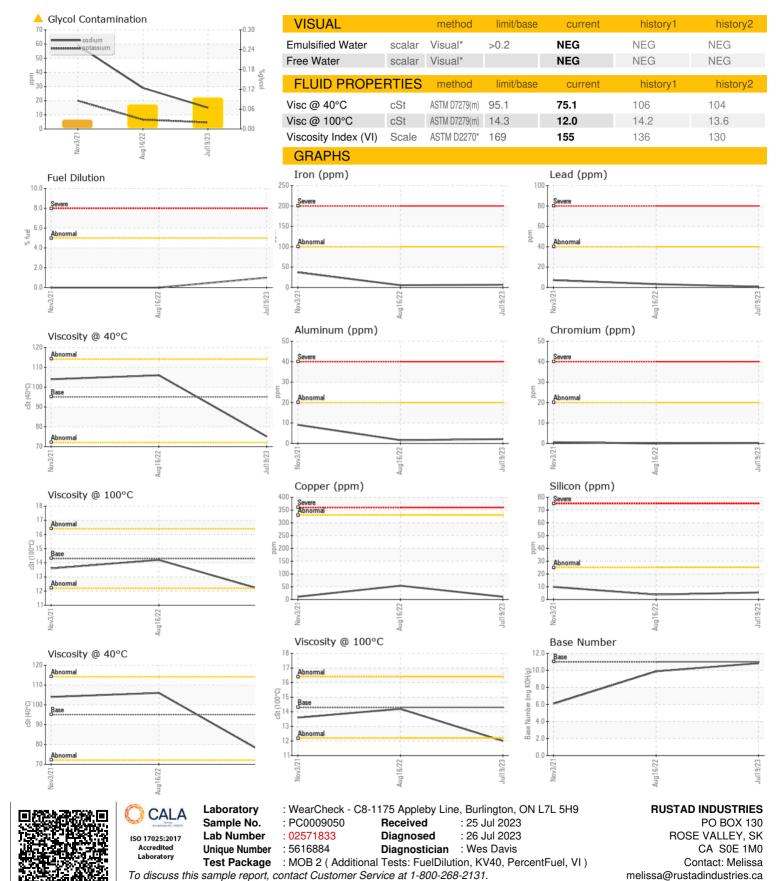
Fluid Condition

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

TR)		No	ov2021	Aug 2022 Jul 2	123	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0009050	PC0009040	PC0009099
Sample Date		Client Info		19 Jul 2023	16 Aug 2022	03 Nov 2021
Machine Age	hrs	Client Info		2182	2052	1986
Oil Age	hrs	Client Info		57	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	7	6	37
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	9
_ead	ppm	ASTM D5185(m)	>40		3	7
Copper	ppm	ASTM D5185(m)	>330	11	54	11
Tin	ppm	ASTM D5185(m)	>15	0	<1	2
Antimony	ppm	ASTM D5185(m)		1	5	24
Vanadium	ppm	ASTM D5185(m)		0	0	<1
Beryllium		ASTM D5185(m)		0	0	0
Cadmium	ppm			0	0	0
	ppm	ASTM D5185(m)				
ADDITIVES		method	limit/base		history1	history2
Boron	ppm	ASTM D5185(m)	65	50	90	208
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	60	64	104
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1160	1062	849	584
Calcium	ppm	ASTM D5185(m)	820	939	1178	1672
Phosphorus	ppm	ASTM D5185(m)	1160	1092	1046	1176
Zinc	ppm	ASTM D5185(m)	1260	1209	1229	1365
Sulfur	ppm	ASTM D5185(m)	3000	2819	2835	3031
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	4	10
Sodium	ppm	ASTM D5185(m)		15	<u>^</u> 29	△ 59
Potassium	ppm	ASTM D5185(m)	>20	5	<u>^</u> 7	<u>^</u> 20
-uel	%	ASTM D7593*	>5	1	<1.0	<1.0
Glycol	%	ASTM D7922*		△ 0.094	△ 0.074	▲ 0.027
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1	0	0.7
Nitration	Abs/cm	ASTM D7624*	>20	7.7	4.9	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.3	18.2	27.4
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.2	13.1	20.4
Base Number (BN)		ASTM D2896*		10.84	9.89	6.10
= 3.50 . (2.11)	99				0.00	0.70



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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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