

OIL ANALYSIS REPORT

Sample Rating Trend



TALLASSEE 913044 Component

Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (-....

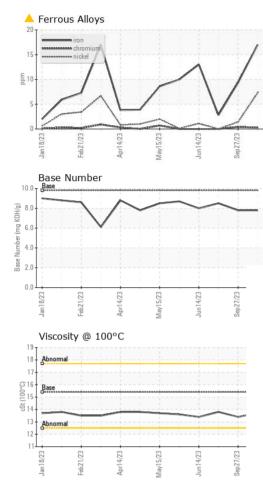
PETRO CANADA DUI	RON SHP 15W40 (-	GAL)	Jan2023	Feb2023 Apr2023	May2023 Jun2023 S	ep2023	
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		GFL0079717	GFL0079698	GFL0086020
No corrective action is recommended at this time.	Sample Date		Client Info		20 Dec 2023	27 Sep 2023	22 Aug 2023
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		32158	3000	2734
Wear	Oil Age	hrs	Client Info		29878	720	334
Exhaust valve wear is indicated.	Oil Changed		Client Info		N/A	N/A	N/A
Contamination	Sample Status				ABNORMAL	NORMAL	NORMAL
There is no indication of any contamination in the bil.	CONTAMINAT	ION	method	limit/base	current	history1	history2
Fluid Condition	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type. The condition of the oil is suitable for further service.	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	17	9	3
	Chromium	ppm	ASTM D5185m	>20	<1	<1	0
	Nickel	ppm	ASTM D5185m	>5	<u> </u>	1	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m	>20	2	3	0
	Lead	ppm	ASTM D5185m	>40	0	1	<1
	Copper	ppm	ASTM D5185m	>330	6	3	0
	Tin	ppm	ASTM D5185m	>15	0	2	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	6	18	47
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	62	61	60
	Manganese	ppm	ASTM D5185m	0	0	<1	0
	Magnesium	ppm	ASTM D5185m	1010	966	903	970
	Calcium	ppm	ASTM D5185m	1070	1094	1102	1215
	Phosphorus	ppm	ASTM D5185m	1150	1016	972	984
	Zinc	ppm	ASTM D5185m	1270	1221	1194	1249
	Sulfur	ppm	ASTM D5185m	2060	3257	2867	3822
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	7	6
	Sodium	ppm	ASTM D5185m		2	3	2
	Potassium	ppm	ASTM D5185m	>20	6	5	3
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.6	0.6	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.9	5.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.8	17.5
	FLUID DEGRAI		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	15.1	12.8
	Base Number (BN)				7.8	7.8	8.5
			2				

Contamination

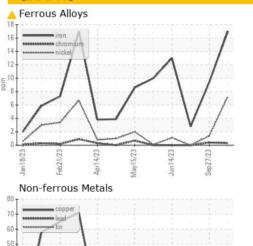
Fluid Condition

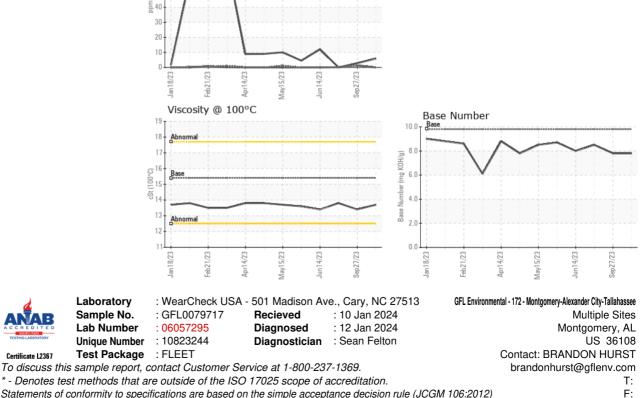


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.4	13.8
GRAPHS						





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)