

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 214010 Component

Diesel Engine Fluid

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

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	e current	history1	history2
Recommendation	Sample Number		Client Info		GFL0115816	GFL0113684	GFL0100443
No corrective action is recommended at this time.	Sample Date		Client Info		08 Mar 2024	21 Feb 2024	26 Jan 2024
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		392	287	133
Wear	Oil Age	hrs	Client Info		0	0	133
Metal levels are typical for a new component	Oil Changed	1110	Client Info		N/A	N/A	N/A
breaking in.	Sample Status				ATTENTION	ATTENTION	ATTENTION
Contamination					ATTENTION	XITENTION	
There is no indication of any contamination in the	CONTAMINAT	ION	method	limit/base		history1	history2
oil.	Fuel		WC Method		<1.0	<1.0	0.6
Fluid Condition	Water		WC Method	>0.2	NEG	NEG	NEG
The oil viscosity is lower than normal. The BN result	Glycol		WC Method		NEG	NEG	NEG
indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	WEAR METAL	S	method	limit/base		history1	history2
	Iron	ppm	ASTM D5185m	>120	57	50	42
	Chromium	ppm	ASTM D5185m	>20	1	1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	<1
	Titanium	ppm	ASTM D5185m	>2	<1	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	6	5	5
	Lead	ppm	ASTM D5185m	>40	<1	0	1
	Copper	ppm	ASTM D5185m	>330	81	63	35
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	e current	history1	history2
	Boron	ppm	ASTM D5185m	0	44	49	58
	Barium	ppm	ASTM D5185m	0	4	5	5
	Molybdenum	ppm	ASTM D5185m	60	42	40	42
	Manganese	ppm	ASTM D5185m	0	5	5	5
	Magnesium	ppm	ASTM D5185m	1010	515	548	557
	Calcium	ppm	ASTM D5185m	1070	1457	1599	1507
	Phosphorus	ppm	ASTM D5185m		689	742	752
	Zinc	ppm	ASTM D5185m	1270	846	869	915
	Sulfur	ppm	ASTM D5185m	2060	2148	2318	2462
	CONTAMINAN	ITS	method	limit/base	e current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	26	23	20
	Sodium	ppm	ASTM D5185m		4	6	6
	Potassium	ppm	ASTM D5185m	>20	9	5	7
	INFRA-RED		method	limit/base	e current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624		8.9	7.8	6.3
	Sulfation	Abs/.1mm	*ASTM D7415		21.8	22.0	21.6
	FLUID DEGRA		method	limit/base	e current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8	20.7	19.6
					8.4	9.2	10.0
	Base Number (BN)						

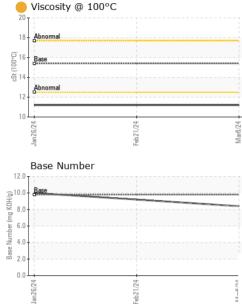
Submitted By: GFL166,GFL172,GFL180,GFL867,GFL868,GFL955 - Chelsea Bryan

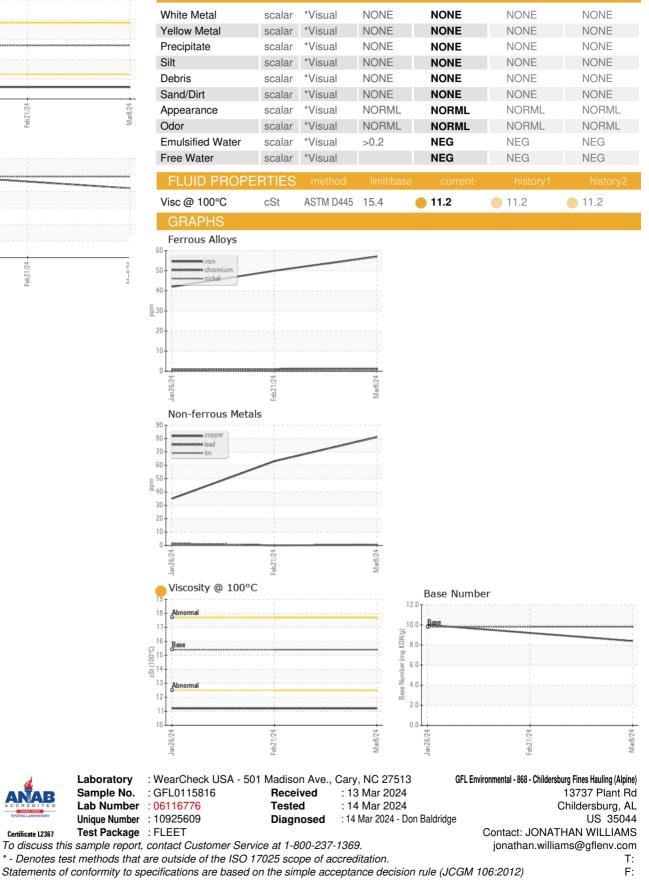


Certificate L2367

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VISUAL





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