

OIL ANALYSIS REPORT

Sample Rating Trend

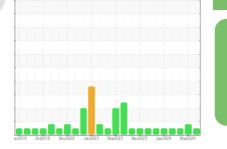
NORMAL



Machine Id 727043-361323

Component **Diesel Engine** Fluid

PETRO CANADA DURON SHP 15W40 (8 GAL)

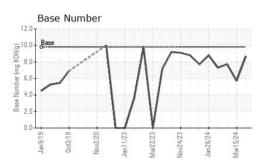


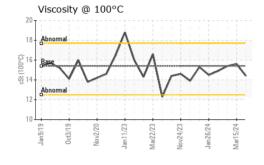


DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
ecommendation	Sample Number		Client Info		GFL0112190	GFL0112212	GFL0098677
Resample at the next service interval to monitor.	Sample Date		Client Info		29 Mar 2024	15 Mar 2024	01 Mar 2024
ear	Machine Age	hrs	Client Info		2954	2812	2710
component wear rates are normal.	Oil Age	hrs	Client Info		150	600	150
Contamination There is no indication of any contamination in the bil.	Oil Changed		Client Info		Not Changd	Changed	Not Changd
	Sample Status				NORMAL	ABNORMAL	NORMAL
	CONTAMINA	TION	method	limit/base	current	history1	history2
Fluid Condition	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
alinity remaining in the oil. The condition of the	Water		WC Method	>0.2	NEG	NEG	NEG
il is suitable for further service.	Glycol		WC Method		NEG	NEG	NEG
	WEAR META	LS	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	5	17	14
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	<1	2	2
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m	>330	0	1	1
	Tin	ppm	ASTM D5185m		0	<1	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	2	<1	0
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	56	59	62
	Manganese	ppm	ASTM D5185m	0	<1	<1	0
	Magnesium	ppm	ASTM D5185m	1010	882	885	931
	Calcium	ppm	ASTM D5185m	1070	980	1033	998
	Phosphorus	ppm	ASTM D5185m	1150	980	967	962
	Zinc	ppm	ASTM D5185m	1270	1156	1195	1196
	Sulfur	ppm	ASTM D5185m	2060	3241	3015	2802
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	3	3	4
	Sodium	ppm	ASTM D5185m		6	18	19
	Potassium	ppm	ASTM D5185m	>20	5	15	12
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	1.6	4.1	3.7
	Nitration	Abs/cm	*ASTM D7624	>20	5.8	9.2	8.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	26.1	25.1
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	14.0	14.6
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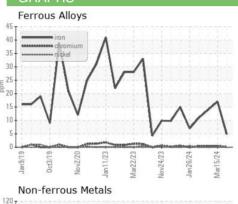


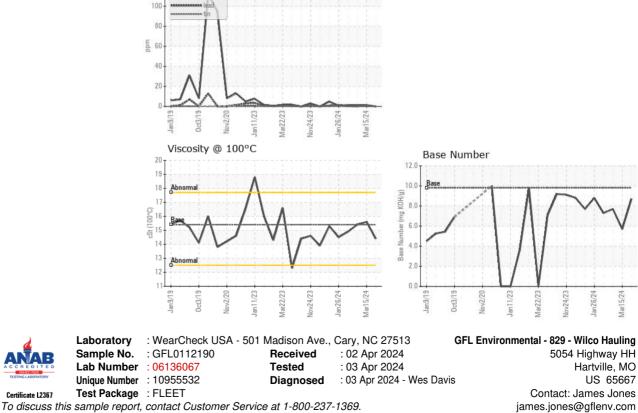
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.4	15.6	15.4
GRAPHS						





* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Certificate L2367

T: (417)349-5006

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