

OIL ANALYSIS REPORT

Sample Rating Trend



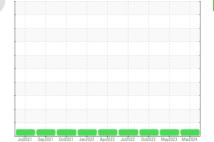


Machine Id 828061

Fluid

Component **Diesel Engine**

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





DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0113918	GFL0079050	GFL0054932
Resample at the next service interval to monitor.	Sample Date		Client Info		27 Mar 2024	26 May 2023	06 Oct 2022
Near	Machine Age	hrs	Client Info		9683	0	7742
Il component wear rates are normal.	Oil Age	hrs	Client Info		9683	0	334
Contamination	Oil Changed		Client Info		Changed	N/A	Changed
here is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
oil.	CONTAMINA	TION	method	limit/base	e current	history1	history2
Iuid Condition	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Ikalinity remaining in the oil. The condition of the	Water		WC Method	>0.2	NEG	NEG	NEG
oil 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	19	25	9
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	<1	<1
	Aluminum	ppm	ASTM D5185m	>20	2	3	1
	Lead	ppm	ASTM D5185m	>40	0	1	<1
	Copper	ppm	ASTM D5185m	>330	<1	14	1
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	e current	history1	history2
	Boron	ppm	ASTM D5185m	0	8	2	5
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	60	61	63
	Manganese	ppm	ASTM D5185m	0	0	1	<1
	Magnesium	ppm	ASTM D5185m	1010	943	963	960
	Calcium	ppm	ASTM D5185m	1070	1115	1071	1165
	Phosphorus	ppm	ASTM D5185m	1150	1017	961	1008
	Zinc	ppm	ASTM D5185m	1270	1237	1264	1261
	Sulfur	ppm	ASTM D5185m	2060	3565	3137	3671
	CONTAMINA	NTS	method	limit/base	e current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	6	5
	Sodium	ppm	ASTM D5185m		3	8	3
	Potassium	ppm	ASTM D5185m	>20	1	4	2
	INFRA-RED		method	limit/base	e current	history1	history2
	Soot %	%	*ASTM D7844	>4	1.2	1.2	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	9.7	10.9	9.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	22.4	20.6
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	16.2	16.0
	Dese North a (DN)			0.0			0.0

Base Number (BN) mg KOH/g ASTM D2896 9.8

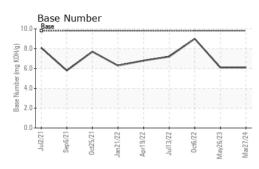
9.0

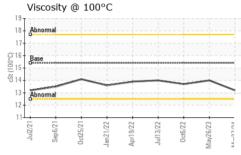
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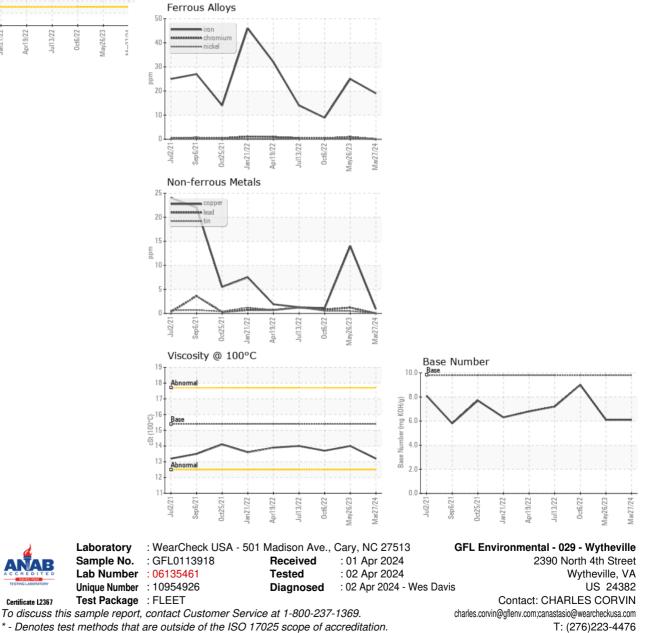


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.2	14.0	13.7
GRAPHS						



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

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Certificate L2367

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