

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



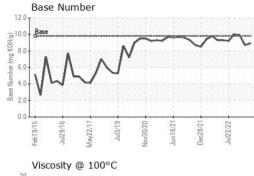
Component **Diesel Engine**

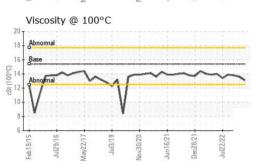
PETRO CANADA DURON SHP 15W40 (8 GAL)

AGNOSIS	SAMPLE INFOR		mathad	limit/base	ourropt	biotory 1	biotory 0
				iimivbase		history 1	history 2
ommendation	Sample Number		Client Info		GFL0071558	GFL0053151	GFL0061668
ample at the next service interval to monitor.	Sample Date		Client Info		29 Jun 2023	13 Mar 2023	21 Dec 2022
ar	Machine Age	mls	Client Info		334059	334059	334059
component wear rates are normal.	Oil Age	mls	Client Info		0	600	600
tamination	Oil Changed		Client Info		Changed	Changed	Changed
re is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
oil. Fluid Condition The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history 1	history 2
	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Glycol		WC Method		NEG	NEG	NEG
	WEAR META	S	method	limit/base	current	history 1	history 2
	Iron	ppm	ASTM D5185m	>120	13	29	37
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	1
	Aluminum	ppm	ASTM D5185m		1	4	4
	Lead	ppm	ASTM D5185m		<1	0	<1
	Copper	ppm	ASTM D5185m		6	44	63
	Tin	ppm	ASTM D5185m		<1	3	4
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history 1	history 2
	Boron	ppm	ASTM D5185m	0	4	10	5
	Barium	ppm	ASTM D5185m	0	2	0	0
	Molybdenum	ppm	ASTM D5185m	60	59	58	63
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	789	810	852
	Calcium	ppm	ASTM D5185m	1070	1023	1075	1165
	Phosphorus	ppm	ASTM D5185m	1150	986	918	985
	Zinc	ppm	ASTM D5185m	1270	1097	1081	1204
	Sulfur	ppm	ASTM D5185m		3041	3329	3082
	CONTAMINA	NTS	method	limit/base	current	history 1	history 2
	Silicon	ppm	ASTM D5185m	>25	3	3	3
	Sodium	ppm	ASTM D5185m		0	2	0
	Potassium	ppm	ASTM D5185m	>20	2	0	1
	INFRA-RED		method	limit/base	current	history 1	history 2
	Soot %	%	*ASTM D7844	>4	0.3	1.8	2.2
	Nitration	Abs/cm	*ASTM D7624	>20	4.7	7.7	8.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	21.6	23.4
	FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
			method *ASTM D7414		current 13.6	history 1 14.5	history 2 15.1

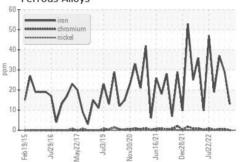


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VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.6	13.8
GRAPHS						
Ferrous Alloys						



Non-ferrous Metals

16 Ba

10

Feb19/15

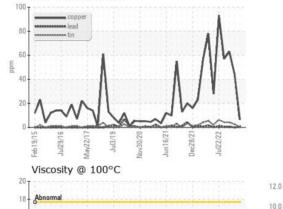
cSt (100°C)

Laboratory

Sample No.

Lab Number

Unique Number



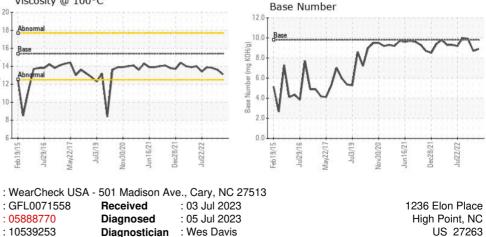
lov30/20

Received

Diagnosed

Jun16/21

Dec28/21



US 27263 Contact: JORGE COSTA jorge.costa@gflenv.com T: (336)668-3712 F:



Test Package : FLEET Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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)

May22/17

Jul3/19

Jul29/16

: GFL0071558

: 05888770

: 10539253