

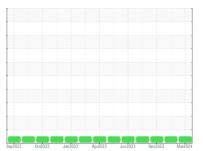
OIL ANALYSIS REPORT

(YA169068) [0111071]

Sample Rating Trend

NORMAL

712001 Component Diesel Engine





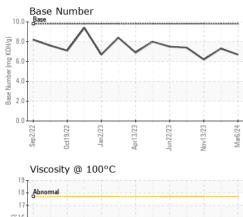
PETRO CANADA DURON SHP 15W40 (--- QTS)

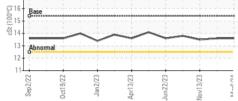
DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0111071	GFL0098510	GFL0098504
Resample at the next service interval to monitor.	Sample Date		Client Info		06 Mar 2024	22 Nov 2023	13 Nov 2023
Vear	Machine Age	hrs	Client Info		5645	4900	4721
All component wear rates are normal.	Oil Age	hrs	Client Info		924	179	62
Contamination	Oil Changed		Client Info		Changed	Not Changd	Changed
here is no indication of any contamination in the il.	Sample Status				NORMAL	NORMAL	NORMAL
luid Condition	CONTAMINA	ION	method	limit/base	e current	history1	history2
he BN result indicates that there is suitable	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
il is suitable for further service.	Glycol		WC Method		NEG	NEG	NEG
	WEAR META	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	8	13	15
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	2	0	1
	Titanium	ppm	ASTM D5185m	>2	0	<1	0
	Silver	ppm	ASTM D5185m	>2	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	2	4	2
	Lead	ppm	ASTM D5185m	>40	<1	1	1
	Copper	ppm	ASTM D5185m	>330	2	49	8
	Tin	ppm	ASTM D5185m	>15	1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	e current	history1	history2
	Boron	ppm	ASTM D5185m	0	1	3	0
	Barium	ppm	ASTM D5185m	0	0	0	6
	Molybdenum	ppm	ASTM D5185m	60	57	60	61
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	941	953	869
	Calcium	ppm	ASTM D5185m	1070	1012	1126	1094
	Phosphorus	ppm	ASTM D5185m	1150	1027	1077	961
	Zinc	ppm	ASTM D5185m	1270	1265	1280	1182
	Sulfur	ppm	ASTM D5185m	2060	2835	2833	3122
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	6	4
	Sodium	ppm	ASTM D5185m		4	4	0
	Potassium	ppm	ASTM D5185m	>20	3	15	4
	INFRA-RED		method	limit/base	e current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.4	0.4	0.5
			*ASTM D7624	>20	8.7	8.3	8.9
	Nitration	Abs/cm	ASTIVI D7024	- = 0			
		Abs/cm Abs/.1mm	*ASTM D7024		19.8	20.0	21.4
	Nitration	Abs/.1mm	*ASTM D7415			20.0 history1	21.4 history2
	Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30 limit/base			



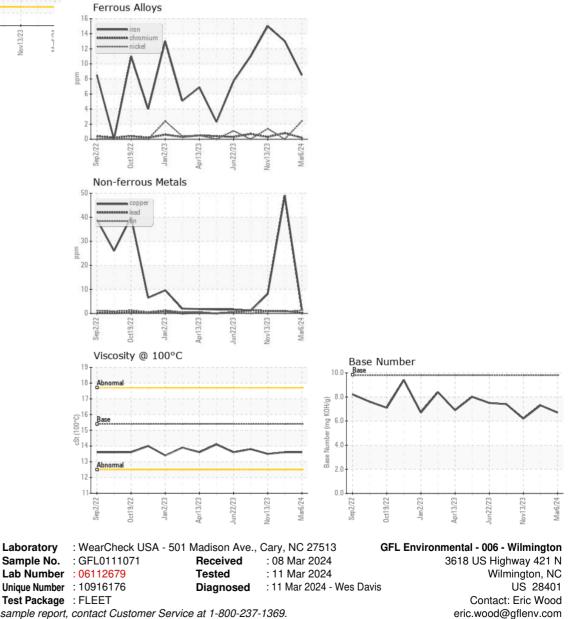


OIL ANALYSIS REPORT





VISUAL		method				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	13.6	13.6	13.5
GRAPHS						





 Certificate L2367
 Test Package
 : FLEET

 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)

T: (717)723-1956

F: (910)762-6880