

OIL ANALYSIS REPORT

Sample Rating Trend

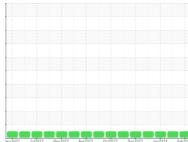




Machine Id 411044 Component

Diesel Engine Fluid

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

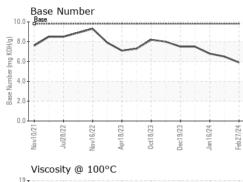


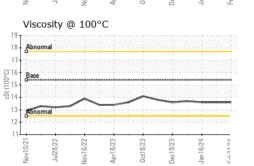


DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/bas	e current	history1	history2
commendation	Sample Number		Client Info		GFL0109249	GFL0109264	GFL0093544
sample at the next service interval to monitor.	Sample Date		Client Info		27 Feb 2024	07 Feb 2024	16 Jan 2024
ar	Machine Age	hrs	Client Info		7025	6854	6696
component wear rates are normal.	Oil Age	hrs	Client Info		492	321	163
ntamination	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
ere is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
I. Iuid Condition	CONTAMINA	ΓΙΟΝ	method	limit/bas	e current	history1	history2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the bil is suitable for further service.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR META	_S	method	limit/bas	e current	history1	history2
	Iron	ppm	ASTM D5185m		14	10	4
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m		1	1	<1
	Titanium	ppm	ASTM D5185m	>2	3	3	2
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	2	2
	Lead	ppm	ASTM D5185m	>40	1	<1	0
	Copper	ppm	ASTM D5185m	>330	3	2	4
	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/bas	e current	history1	history2
	Boron	ppm	ASTM D5185m	0	5	3	1
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	65	60	61
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	1029	978	906
	Calcium	ppm	ASTM D5185m	1070	1174	1099	1014
	Phosphorus	ppm	ASTM D5185m	1150	1105	1012	997
	Zinc	ppm	ASTM D5185m	1270	1367	1278	1183
	Sulfur	ppm	ASTM D5185m	2060	2773	2770	2571
	CONTAMINA	NTS	method	limit/bas	e current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	6	6
	Sodium	ppm	ASTM D5185m		7	5	4
	Potassium	ppm	ASTM D5185m	>20	2	<1	0
	INFRA-RED		method	limit/bas	e current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.6	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.6	9.1	8.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	20.6	19.9
	FLUID DEGRA	DATION	method	limit/bas	e current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	16.8	16.5

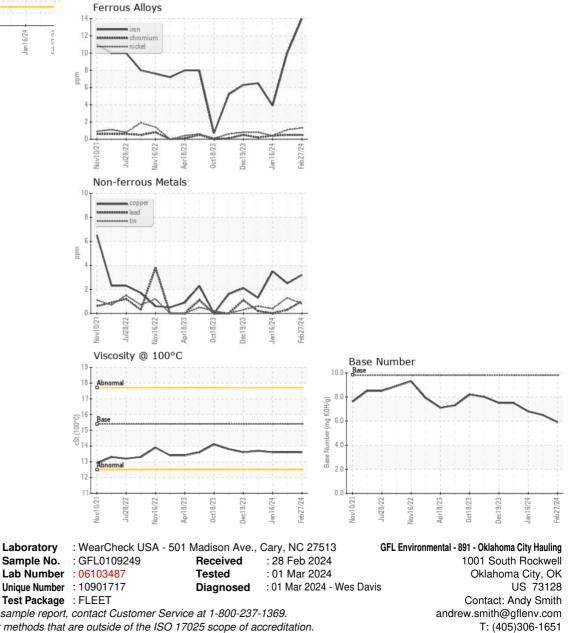


OIL ANALYSIS REPORT





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	13.6	13.6	13.6
GRAPHS						





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)

Submitted By: JUSTIN JOHNSON

F: