

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 720022-310085 Component

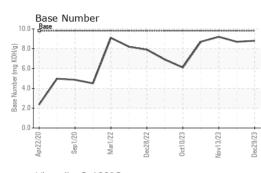
Diesel Engine Fluid

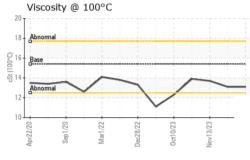
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	e current	history1	history2
ecommendation	Sample Number		Client Info		GFL0102495	GFL0102518	GFL0098617
esample at the next service interval to monitor.	Sample Date		Client Info		29 Dec 2023	04 Dec 2023	13 Nov 2023
ear	Machine Age	hrs	Client Info		10721	10548	10414
component wear rates are normal.	Oil Age	hrs	Client Info		0	0	0
ontamination	Oil Changed		Client Info		N/A	N/A	N/A
ere is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
uid Condition	CONTAMINA	FION	method	limit/base	e current	history1	history2
The BN result indicates that there is suitable	Fuel		WC Method	>5	<1.0	<1.0	<1.0
calinity 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	e current	history1	history2
	Iron	ppm	ASTM D5185m	>80	10	22	16
	Chromium	ppm	ASTM D5185m	>5	<1	1	1
	Nickel	ppm	ASTM D5185m	>2	0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>30	2	6	6
	Lead	ppm	ASTM D5185m	>30	0	0	<1
	Copper	ppm	ASTM D5185m	>150	<1	1	2
	Tin	ppm	ASTM D5185m	>5	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	<1
	ADDITIVES		method	limit/base	e current	history1	history2
	Boron	ppm	ASTM D5185m	0	0	1	<1
	Barium	ppm	ASTM D5185m	0	0	0	9
	Molybdenum	ppm	ASTM D5185m	60	56	57	58
	Manganese	ppm	ASTM D5185m	0	0	0	<1
	Magnesium	ppm	ASTM D5185m	1010	912	897	868
	Calcium	ppm	ASTM D5185m	1070	1020	1006	1020
	Phosphorus	ppm	ASTM D5185m	1150	1013	972	994
	Zinc	ppm	ASTM D5185m	1270	1172	1165	1162
	Sulfur	ppm	ASTM D5185m	2060	3226	3165	3602
	CONTAMINA	NTS	method	limit/base	e current	history1	history2
	Silicon	ppm	ASTM D5185m	>20	6	9	8
	Sodium	ppm	ASTM D5185m		2	3	3
	Potassium	ppm	ASTM D5185m	>20	4	17	17
	INFRA-RED		method	limit/base	e current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2
		A la a / a una	*ASTM D7624	>20	6.0	7.2	6.1
	Nitration	Abs/cm	NOTHER DIGET				
	Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7415		18.1	19.3	18.5
		Abs/.1mm	*ASTM D7415			19.3 history1	18.5 history2
	Sulfation	Abs/.1mm	*ASTM D7415	>30 limit/base			

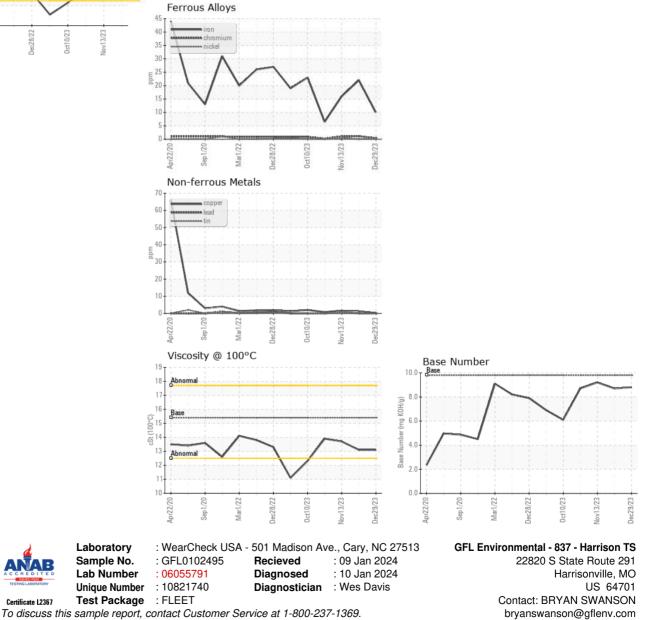


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.1	13.1	13.7
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

Т:

F: