

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 913080 Component

Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (36 QTS)

DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0104292	GFL0110043	GFL0109980
Resample at the next service interval to monitor.	Sample Date		Client Info		06 Mar 2024	27 Jan 2024	17 Jan 2024
Wear	Machine Age	hrs	Client Info		3702	3421	3280
All component wear rates are normal.	Oil Age	hrs	Client Info		600	600	600
Contamination	Oil Changed		Client Info		Changed	Changed	Changed
here is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
il.	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fluid Condition The 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
oil is suitable for further service.	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	_S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	33	22	22
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	6	0	4
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	8	2
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	16	<1	17
	Tin	ppm	ASTM D5185m	>15	2	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	<1	0	<1
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	59	48	56
	Manganese	ppm	ASTM D5185m	0	1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	921	809	890
	Calcium	ppm	ASTM D5185m	1070	1019	885	1086
	Phosphorus	ppm	ASTM D5185m	1150	981	919	801
	Zinc	ppm	ASTM D5185m	1270	1251	1099	1098
	Sulfur	ppm	ASTM D5185m	2060	2244	2513	2205
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	6	8
	Sodium	ppm	ASTM D5185m		4	5	4
	Potassium	ppm	ASTM D5185m	>20	2	3	0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	1.1	0.9	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	10.5	9.8	9.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	19.5	21.1
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	16.6	17.7
	Deer Number (DN)		AOTH DOGGO	0.0		0.0	

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

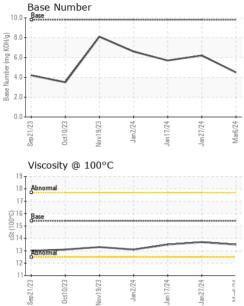
6.2

4.5

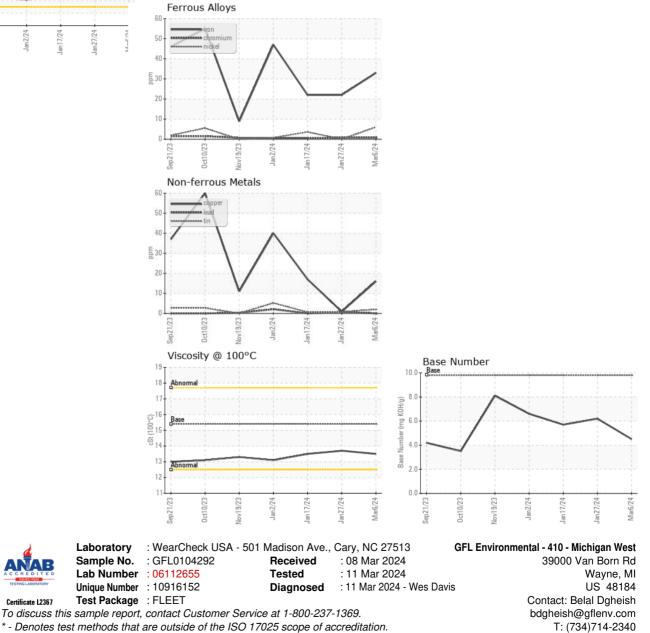
5.7



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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	13.5	13.7	13.5
GRAPHS						



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

Certificate L2367

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