

76

OIL ANALYSIS REPORT

Sample Rating Trend



Area (99AJ2Z) 923027-260202 Component

Diesel Engine Fluid

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

DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
ecommendation	Sample Number		Client Info		GFL0104913	GFL0088099	GFL0088069
esample at the next service interval to monitor.	Sample Date		Client Info		13 Feb 2024	14 Nov 2023	17 Oct 2023
ear	Machine Age	hrs	Client Info		21717	21622	21533
component wear rates are normal.	Oil Age	hrs	Client Info		3267	0	3267
ontamination	Oil Changed		Client Info		Changed	N/A	N/A
There is no indication of any contamination in the bil. Fluid Condition The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the bil is suitable for further service.	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINA	TION	method	limit/base	current	history1	history2
	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR META	LS	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m		2	12	8
	Chromium	ppm	ASTM D5185m		0	<1	0
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		<1	3	2
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		0	1	<1
	Tin	ppm	ASTM D5185m		0	<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	0	0	<1
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	54	56	51
	Manganese	ppm	ASTM D5185m	0	0	<1	0
	Magnesium	ppm	ASTM D5185m	1010	905	947	830
	Calcium	ppm	ASTM D5185m	1070	968	1014	929
	Phosphorus	ppm	ASTM D5185m	1150	984	1019	891
	Zinc	ppm	ASTM D5185m	1270	1165	1231	1088
	Sulfur	ppm	ASTM D5185m	2060	2866	2930	2527
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	3	3	3
	Sodium	ppm	ASTM D5185m		2	4	4
	Potassium	ppm	ASTM D5185m	>20	0	<1	<1
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.1	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	4.9	7.8	6.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.1	18.4	17.7
	FLUID DEGRA	ADATION	method	limit/base	current	history1	history2
	Ovidation	Abc/1mm	*ASTM D7414	>25	12.9	14.6	13.5
	Oxidation	AU2/.111111	ASTIVI D7414	220	12.3	14.0	10.0

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

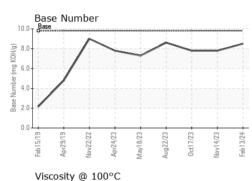
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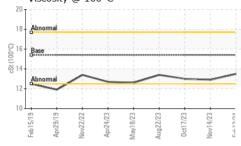
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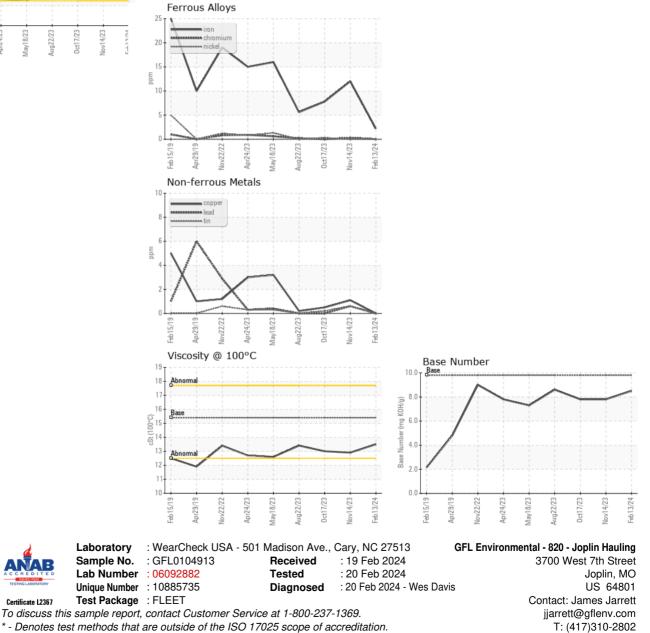


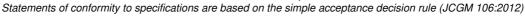
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	12.9	13.0
GRAPHS						





Certificate L2367

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