

OIL ANALYSIS REPORT

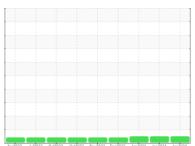
Sample Rating Trend



Area (27KM1B) 413116 Component **Diesel Engine**

Fluid

PETRO CANADA DURON UHP 5W30 (--- QTS)



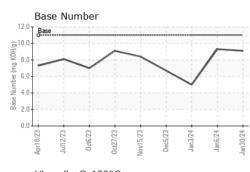


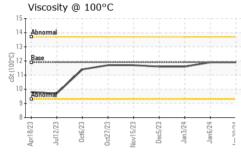
DIAGNOSIS	SAMPLE INFOR	MATION		limit/base	Current	history1	history2
Recommendation	Sample Number		Client Info		GFL0108113	GFL0102458	GFL0102469
Resample at the next service interval to monitor.	Sample Date		Client Info		30 Jan 2024	06 Jan 2024	03 Jan 2024
Wear	Machine Age	hrs	Client Info		2446	2292	0
All component wear rates are normal.	Oil Age	hrs	Client Info		0	0	0
Contamination	Oil Changed		Client Info		Not Changd	Not Changd	Changed
There is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
oil.	CONTAMINAT		method	limit/base		history1	history2
Fluid Condition		ION					
The BN result indicates that there is suitable	Fuel		WC Method		<1.0	<1.0	<1.0
alkalinity 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 METAL	.S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	7	3	11
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>15	1	0	<1
	Titanium	ppm	ASTM D5185m	>2	<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	2	1	3
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	15	9	63
	Tin	ppm	ASTM D5185m	>15	<1	0	1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	Cadmium	ppm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	43	59	20
	Barium	ppm	ASTM D5185m	0	13	0	0
	Molybdenum	ppm	ASTM D5185m	64	60	62	60
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	1160	1054	1084	1181
	Calcium	ppm	ASTM D5185m	820	833	872	863
	Phosphorus	ppm	ASTM D5185m	1160	973	1054	1158
	Zinc	ppm	ASTM D5185m	1260	1215	1246	1397
	Sulfur	ppm	ASTM D5185m	3000	3555	3368	3469
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	6	4
	Sodium	ppm	ASTM D5185m		0	3	4
	Potassium	ppm	ASTM D5185m	>20	8	2	9
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.2	0.1	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.3	10.4
	Sulfation	Abs/.1mm	*ASTM D7415		19.4	19.0	23.3
	FLUID DEGRAI	DAT <u>IO</u> N	method	limit/base	current	history1	history2
	Oxidation		*ASTM D7414	\ 25	17.2	16.2	21.3
	Base Number (BN)				9.1	9.3	5.0
	Dase Mulliper (BN)	nig NOR/g	AG 1101 DZ030	11.0	9.1	9.0	5.0

Contact/Location: GFL823,834,836,837,840 - Loyce Stewart - GFL836

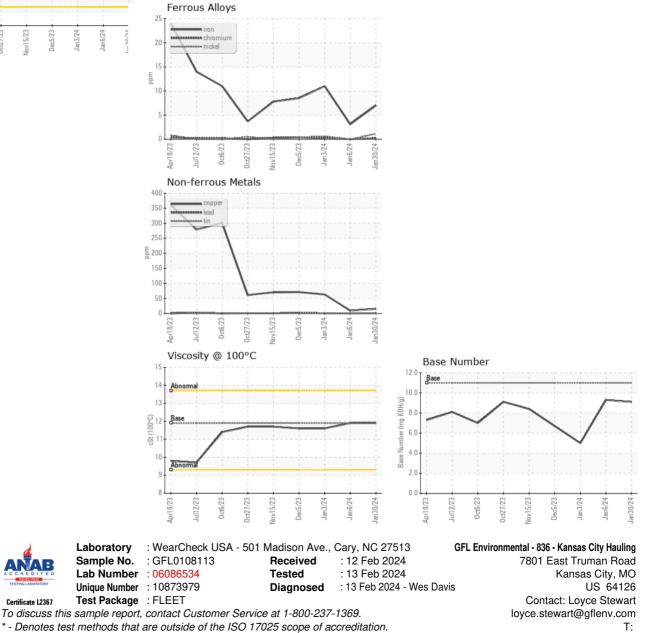


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	11.9	11.9	11.9	11.6
GRAPHS						



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

Certificate L2367

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