

OIL ANALYSIS REPORT

Sample Rating Trend



MONTGOMERY **MACK 420040**



Component Diesel Engine

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

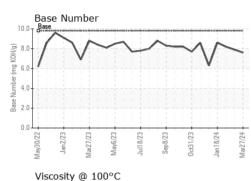


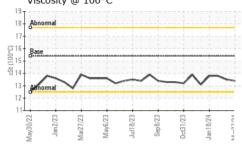


DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0115609	GFL0115578	GFL0088659
Resample at the next service interval to monitor.	Sample Date		Client Info		27 Mar 2024	12 Mar 2024	21 Feb 2024
Vear	Machine Age	hrs	Client Info		9699	9594	9469
Il component wear rates are normal.	Oil Age	hrs	Client Info		492	9594	9469
Contamination	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
here is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
il.	CONTAMINAT		method	limit/base	current	history1	history2
luid Condition	Fuel		WC Method		<1.0	<1.0	<1.0
he BN result indicates that there is suitable	Water		WC Method		NEG	NEG	NEG
Ikalinity remaining in the oil. The condition of the il suitable for further service.	Glycol		WC Method	20.2	NEG	NEG	NEG
	-	0		Par Maria a			
	WEAR METAL		method	limit/base		history1	history2
	Iron	ppm	ASTM D5185m		7	6	6
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		2	0	1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		3	2	3
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		0	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	4	5	4
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	57	58	63
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	946	925	1001
	Calcium	ppm	ASTM D5185m	1070	1051	1004	1087
	Phosphorus	ppm	ASTM D5185m	1150	1022	1023	1052
	Zinc	ppm	ASTM D5185m	1270	1268	1217	1298
	Sulfur	ppm	ASTM D5185m	2060	3413	3359	3359
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	5	6
	Sodium	ppm	ASTM D5185m		3	2	3
	Potassium	ppm	ASTM D5185m	>20	3	2	3
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.3	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	6.8	6.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	18.4	18.3
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	FLUID DEGRA Oxidation		*ASTM D7414		current	history1 14.6	history2 14.1

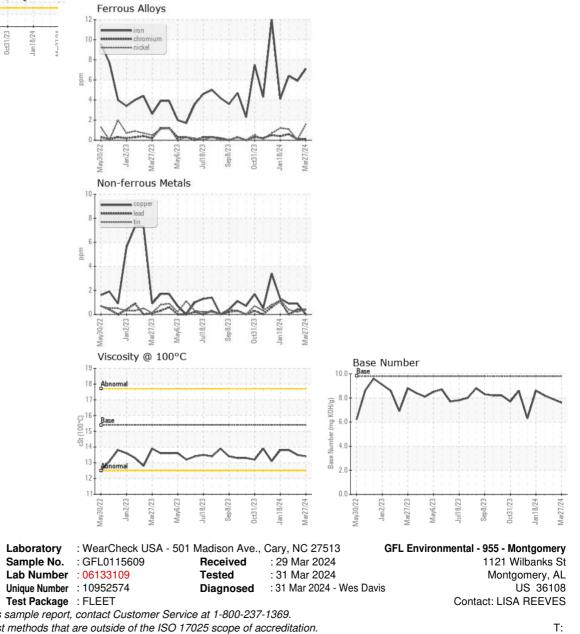


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.4	13.5	13.8
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)

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