

OIL ANALYSIS REPORT

Sample Rating Trend

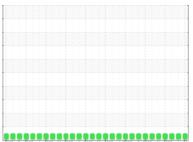
NORMAL



MONTGOMERY MACK 920015-192536 Component

Diesel Engine Fluid

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

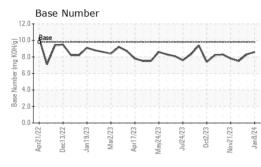


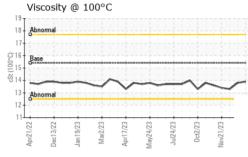


DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
commendation	Sample Number		Client Info		GFL0081879	GFL0087961	GFL0091261
sample at the next service interval to monitor.	Sample Date		Client Info		08 Jan 2024	28 Dec 2023	05 Dec 2023
ar	Machine Age	hrs	Client Info		12462	12349	12207
component wear rates are normal.	Oil Age	hrs	Client Info		113	137	520
ntamination	Oil Changed		Client Info		Not Changd	Changed	Changed
ere is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
id Condition	CONTAMINAT	ION	method	limit/base	current	history1	history2
The BN result indicates that there is suitable	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
alinity remaining in the oil. The condition of the	Water		WC Method	>0.2	NEG	NEG	NEG
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	3	4	9
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m	>2	0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	2	11
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	0	<1	<1
	Tin	ppm	ASTM D5185m		0	<1	0
	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	3	5	<1
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	61	60	60
	Manganese	ppm	ASTM D5185m	0	0	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	981	979	953
	Calcium	ppm	ASTM D5185m	1070	1066	1072	1048
	Phosphorus	ppm	ASTM D5185m	1150	1040	997	974
	Zinc	ppm	ASTM D5185m	1270	1244	1320	1214
	Sulfur	ppm	ASTM D5185m	2060	3417	3147	2825
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	4	8
	Sodium	ppm	ASTM D5185m		2	3	4
	Potassium	ppm	ASTM D5185m	>20	2	4	20
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.2	0.2	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	5.3	5.8	7.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	18.2	19.3
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	FLUID DEGRA		method *ASTM D7414		current	history1 14.3	history2 14.8

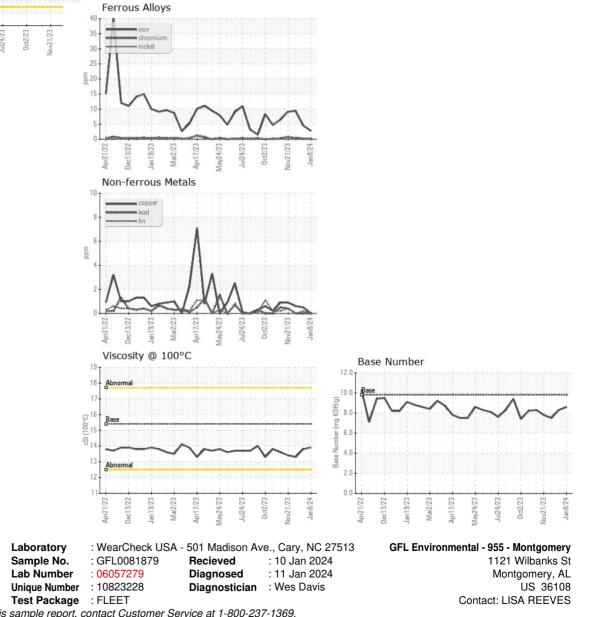


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.9	13.8	13.3
GRAPHS						





Certificate 12367 Test Package : FLEET 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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