

OIL ANALYSIS REPORT

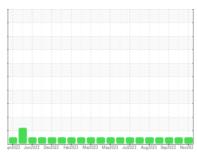
Sample Rating Trend

NORMAL

MONTGOMERY **MACK 420044**



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

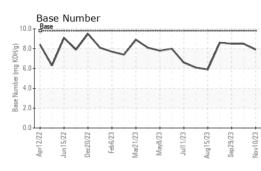


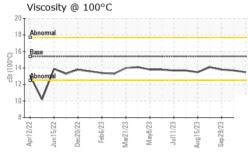


AGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
ommendation	Sample Number		Client Info		GFL0087991	GFL0089870	GFL0089891
mple at the next service interval to monitor.	Sample Date		Client Info		10 Nov 2023	20 Oct 2023	29 Sep 2023
	Machine Age	hrs	Client Info		8478	8354	8242
r omponent wear rates are normal.	Oil Age	hrs	Client Info		706	582	470
•	Oil Changed	1110	Client Info		Changed	Not Changd	Not Changd
amination	Sample Status				NORMAL	NORMAL	NORMAL
e is no indication of any contamination in the	CONTAMINAT		mathad	limit/base			
Condition		ION	method	limit/base		history1	history2
The BN result indicates that there is suitable Ilkalinity remaining in the oil. The condition of the il is suitable for further service.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	6	5	5
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185m	>2	<1	<1	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		2	2	2
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	1	<1	<1
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	Cadmium	ppm	ASTM D5185m		<1	<1	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	<1	0	0
	Barium	ppm	ASTM D5185m	0	<1	0	0
	Molybdenum	ppm	ASTM D5185m	60	62	57	68
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	954	914	1101
	Calcium	ppm	ASTM D5185m	1070	1075	993	1126
	Phosphorus	ppm	ASTM D5185m	1150	1047	1003	1159
	Zinc	ppm	ASTM D5185m	1270	1227	1172	1409
	Sulfur	ppm	ASTM D5185m		2895	3546	3552
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	5	6
	Sodium	ppm	ASTM D5185m		0	3	3
	Potassium	ppm	ASTM D5185m	>20	2	4	1
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.2	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624		6.8	6.5	6.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.3	18.2
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	14.4	14.2



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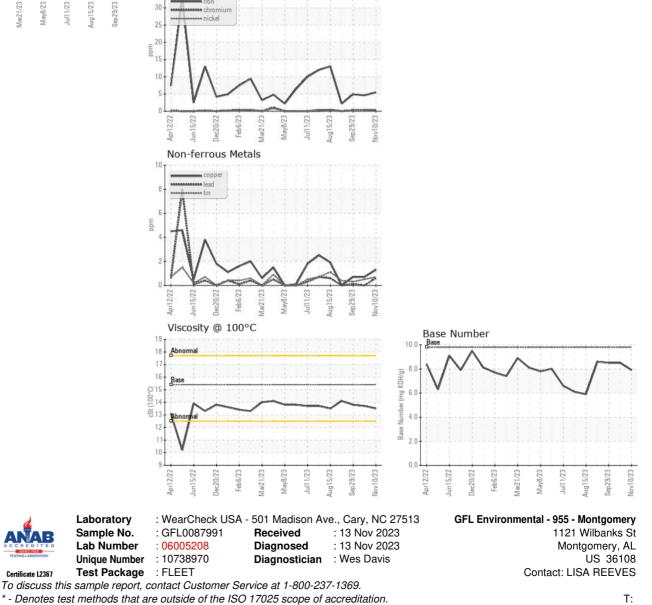




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

Ferrous Alloys

35



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