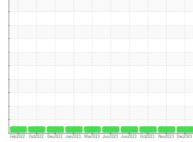


## **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

## MONTGOMERY MACK 924016-142519 Component





**Diesel Engine** Fluid

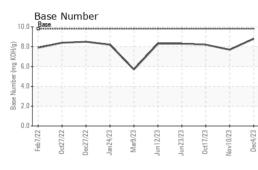
## PETRO CANADA DURON SHP 15W40 (--- LTR)

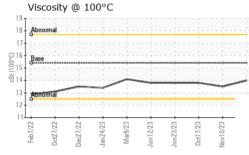
DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0091259	GFL0087992	GFL0089865
Resample at the next service interval to monitor.	Sample Date		Client Info		04 Dec 2023	10 Nov 2023	17 Oct 2023
Vear	Machine Age	hrs	Client Info		21786	21642	21472
All component wear rates are normal.	Oil Age	hrs	Client Info		144	562	392
Contamination	Oil Changed		Client Info		Not Changd	Changed	Not Changd
There is no indication of any contamination in the iil.	Sample Status				NORMAL	NORMAL	NORMAL
". Iuid Condition	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
he BN result indicates that there is suitable	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Ikalinity 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 META	LS	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	3	19	13
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	2	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m		3	10	6
	Lead	ppm	ASTM D5185m		<1	1	<1
	Copper	ppm	ASTM D5185m		<1	5	2
	Tin	ppm	ASTM D5185m		<1	1	<1
	Vanadium	ppm	ASTM D5185m	210	<1	<1	0
	Cadmium	ppm	ASTM D5185m		0	<1	0
	ADDITIVES	ppm	method	limit/base	-	history1	history2
	Boron	ppm	ASTM D5185m		4	2	2
	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		42	86	62
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		746	1332	959
	Calcium	ppm	ASTM D5185m		615	1450	1076
	Phosphorus	ppm	ASTM D5185m		625	1409	961
	Zinc	ppm	ASTM D5185m		761	1672	1228
	Sulfur	ppm	ASTM D5185m	2060	1928	4308	3287
	Canal	ppiii					
	CONTAMINA		method	limit/base		history1	history2
				limit/base		history1 11	history2 6
	CONTAMINA	NTS	method	limit/base	current		
	CONTAMINAI Silicon	NTS ppm	method ASTM D5185m	limit/base	current 4	11	6
	CONTAMINAI Silicon Sodium	NTS ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 4 3 8	11 16	6 10
	CONTAMINAL Silicon Sodium Potassium	NTS ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base	current 4 3 8	11 16 5	6 10 2
	CONTAMINAL Silicon Sodium Potassium INFRA-RED	NTS ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >25 >20 limit/base >4	current 4 3 8 current	11 16 5 history1	6 10 2 history2
	CONTAMINAL Silicon Sodium Potassium INFRA-RED Soot %	NTS ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	limit/base >25 >20 limit/base >4 >20	current 4 3 8 current 0.2	11 16 5 history1 0.5	6 10 2 history2 0.3
	CONTAMINAL Silicon Sodium Potassium INFRA-RED Soot % Nitration	NTS ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m •ASTM D7844 •ASTM D7624 •ASTM D7415	limit/base >25 >20 limit/base >4 >20	current 4 3 8 current 0.2 5.4 17.4	11 16 5 history1 0.5 8.3	6 10 2 history2 0.3 6.7
	CONTAMINAL Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	NTS ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m •ASTM D7844 •ASTM D7624 •ASTM D7415	limit/base >25 >20 limit/base >4 >20 >30 limit/base	current 4 3 8 current 0.2 5.4 17.4	11 16 5 history1 0.5 8.3 18.8	6 10 2 history2 0.3 6.7 17.5



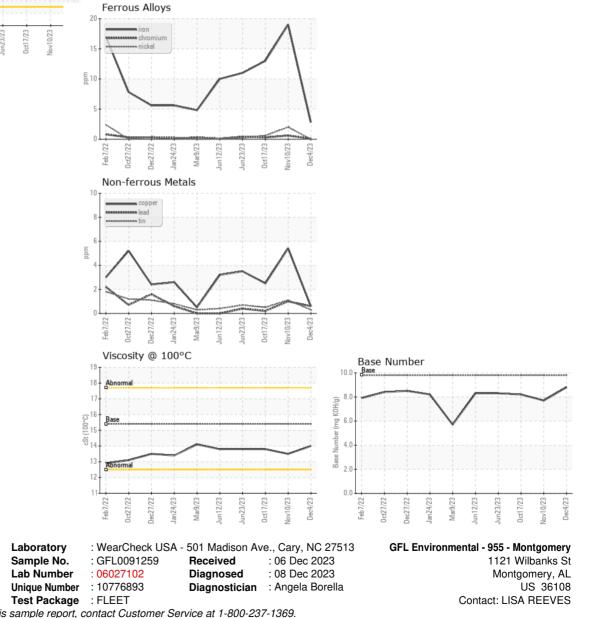


## **OIL ANALYSIS REPORT**





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	14.0	13.5	13.8
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)