

OIL ANALYSIS REPORT

Sample Rating Trend





(AS899A) Supermarket - Tractor **MACK 107A1821** Component

Diesel Engine Fluid

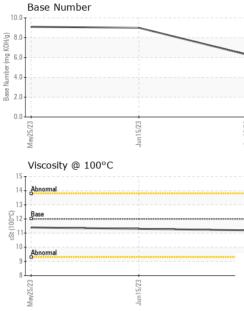
PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PCA0111014	PCA0099858	PCA0097072
Resample at the next service interval to monitor.	Sample Date		Client Info		10 Jan 2024	15 Jun 2023	25 May 2023
Wear	Machine Age	mls	Client Info		550440	531522	529443
All component wear rates are normal.	Oil Age	mls	Client Info		18918	1079	5055
Contamination	Oil Changed		Client Info		Changed	Changed	Not Changd
There is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
oil. Fluid Condition The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	CONTAMINAT	ION	method	limit/base	current	history1	history2
	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.2	NEG	NEG	NEG
	WEAR METAL	S	method	limit/base		history1	history2
	Iron	ppm	ASTM D5185m		21	12	11
	Chromium	ppm	ASTM D5185m		<1	0	<1
	Nickel	ppm	ASTM D5185m		<1	1	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		3	2	2
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		2	2	2
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	2	12	12	14
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	50	62	60	61
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	950	893	867	945
	Calcium	ppm	ASTM D5185m	1050	1134	1141	1198
	Phosphorus	ppm	ASTM D5185m	995	1005	1022	1055
	Zinc	ppm	ASTM D5185m	1180	1197	1191	1220
	Sulfur						0000
	Sullui	ppm	ASTM D5185m	2600	2796	3145	3662
	CONTAMINAN		ASTM D5185m method	2600 limit/base		3145 history1	history2
				limit/base			
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	CONTAMINAN Silicon	ITS ppm	method ASTM D5185m	limit/base >25	current 3	history1 2	history2 3
	CONTAMINAN Silicon Sodium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >25	current 3 4 0	history1 2 0	history2 3 5
	CONTAMINAN Silicon Sodium Potassium	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base	current 3 4 0	history1 2 0 2	history2 3 5 0
	CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >25 >20 limit/base >4	current 3 4 0 current	history1 2 0 2 history1	history2 3 5 0 history2
	CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	rrs ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	limit/base >25 >20 limit/base >4 >20	current 3 4 0 current 0.4	history1 2 0 2 history1 0.3	history2 3 5 0 history2 0.2
	CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	Ppm 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	current 3 4 0 current 0.4 8.2 20.7	history1 2 0 2 history1 0.3 6.9	history2 3 5 0 history2 0.2 6.3
	CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	Ppm ppm ppm ppm % Abs/cm 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 3 4 0 current 0.4 8.2 20.7	history1 2 0 2 history1 0.3 6.9 19.1	history2 3 5 0 history2 0.2 6.3 18.9



OIL ANALYSIS REPORT

VISUAL



	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
Jan 10/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Jani	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	12.00	11.2	11.3	11.4
	GRAPHS						
	Ferrous Alloys						
	iron						
\$7/G UNC	20 - nickel		/				
-	15						
	10						
	5 -						
	0						
	May25/23	Jun15/23		Jan 10/24			
	May	Jun		Jan			
	Non-ferrous Meta	ls					
	copper						
	8 - enseense lead						
	6 -						
	E dd						
	4						
	2-						
	0	ananai 110 Birmanian					
	0	6/23 -		1/24			
	May25/23	Jun 15/23		Jan 10/24			
	 Viscosity @ 100°(2			Base Number		
	15			10.0			
	14 - Abnormal			- 8.0			
-	13			KOH/g			
	Base	н н н н н н н н <u>ф</u> илистрание 		B_ 6.0	1		
Į.	5 11-			4.0			
	10 - Abnormal			0.0 0.0 Base Number (mg KOHVa)			
	9-			2.0			
	84	<u>5</u>					
	May25/23	Jun 15/23		Jan 10/24	May25/23	Jun15/23	
		٦٢		Ja	Ma	٦n	
	Ma						
Laboratorv		501 Madi	son Ave., Ca	ry, NC 27513	3 Transervic	e - Shop 1071 - SL	upermarket-Dav
Laboratory Sample No.	: WearCheck USA - : PCA0111014	Recieved	d :18.	Jan 2024	3 Transervic	e - Shop 1071 - Sı 60	A Tower Ro
Sample No. Lab Number	: WearCheck USA - : PCA0111014 : <mark>06064146</mark>	Recieved Diagnos	d :18. ed :24.	Jan 2024 Jan 2024	3 Transervic		A Tower Ro Dayton,
AR Sample No.	: WearCheck USA - : PCA0111014 : <mark>06064146</mark>	Recieved	d :18. ed :24.	Jan 2024	3 Transervic	60	A Tower Ro

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