

## **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

## DHP13BLKBOTTOM

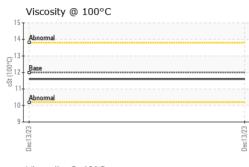
Component **3 New (Unused) Oil** Fluid

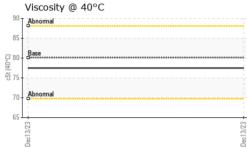
PETRO CANADA DURON SHP 10W30 (--- LTR)

DIAGNOSIS	SAMPLE INFORM	ATI <u>ON</u>	method_	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PC		
This is a baseline read-out on the submitted	Sample Date		Client Info		13 Dec 2023		
sample.		nrs	Client Info		0		
Wear		hrs	Client Info		0		
{not applicable}	Oil Changed		Client Info		N/A		
Contamination	Sample Status				NORMAL		
{not applicable}	-			11 11 11			
Fluid Condition	CONTAMINATIC	<b>N</b>	method	limit/base		history1	history2
{not applicable}	Water		WC Method		NEG		
	WEAR METALS		method	limit/base	current	history1	history2
	lron p	opm	ASTM D5185(m)		<1		
	Chromium p	opm	ASTM D5185(m)		0		
	Nickel ß	opm	ASTM D5185(m)		0		
	Titanium p	opm	ASTM D5185(m)		0		
	Silver	opm	ASTM D5185(m)		0		
	Aluminum p	opm	ASTM D5185(m)		1		
	Lead p	opm	ASTM D5185(m)		0		
	Copper p	opm	ASTM D5185(m)		0		
	Tin p	opm	ASTM D5185(m)		0		
	Antimony p	opm	ASTM D5185(m)		0		
	Vanadium	opm	ASTM D5185(m)		0		
	Beryllium p	opm	ASTM D5185(m)		0		
	Cadmium p	opm	ASTM D5185(m)		0		
	ADDITIVES		method	limit/base	current	history1	history2
	Boron p	opm	ASTM D5185(m)	2	1		
	Barium p	opm	ASTM D5185(m)	0	0		
	Molybdenum p	opm	ASTM D5185(m)	50	59		
	Manganese p	opm	ASTM D5185(m)	0	0		
	Magnesium p	opm	ASTM D5185(m)	950	1020		
	Calcium p	opm	ASTM D5185(m)	1050	1070		
	Phosphorus p	opm	ASTM D5185(m)	995	1090		
	Zinc	opm	ASTM D5185(m)	1180	1210		
	Sulfur p	opm	ASTM D5185(m)	2600	2920		
	Lithium p	opm	ASTM D5185(m)		<1		
	CONTAMINANT	S	method	limit/base	current	history1	history2
	Silicon	opm	ASTM D5185(m)		4		
	Sodium p	opm	ASTM D5185(m)		<1		
	Potassium p	opm	ASTM D5185(m)	>20	<1		
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	ASTM D7844*		0		
			ASTM D7624*		4.1		
			ASTM D7415*		17.7		
	FI UID DEGRADA		method_	limit/base		history1	history2
	FLUID DEGRADA		method ASTM D7414*	limit/base	current 12.9	history1	history2



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VISUAL		method				history2			
White Metal	scalar	Visual*	NONE	NONE					
Yellow Metal	scalar	Visual*	NONE	NONE					
Precipitate	scalar	Visual*	NONE	NONE					
Silt	scalar	Visual*	NONE	NONE					
Debris	scalar	Visual*	NONE	NONE					
Sand/Dirt	scalar	Visual*	NONE	NONE					
Appearance	scalar	Visual*	NORML	NORML					
Odor	scalar	Visual*	NORML	NORML					
Emulsified Water	scalar	Visual*		NEG					
Free Water	scalar	Visual*		NEG					
FLUID PROPE	RTIES	method	limit/base	current	history1	history2			
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	77.5					
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.6					
Viscosity Index (VI)	Scale	ASTM D2270*	144	142					
SAMPLE IMAG	iES	method	limit/base	current	history1	history2			
Color					no image	no image			
Bottom					no image	no image			
GRAPHS									

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Petro-Canada Technical/Nick Finelli Laboratory CALA Sample No. : PC Recieved : 22 Dec 2023 Lab Number : 02604937 Diagnosed : 28 Dec 2023 Mississauga, ON ISO 17025:2017 Accredited Laboratory Unique Number : 5698022 Diagnostician : Kevin Marson CA L5J 1K2 Test Package : TEST (Additional Tests: FT-IR, ICP, ICP-NEWOIL, KV100, KV40, Spat, VI) Contact: Nick Finelli To discuss this sample report, contact Customer Service at 1-800-268-2131. nick.finelli@hfsinclair.com Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: Validity of results and interpretation are based on the sample and information as supplied. F: (877)352-8916