

OIL ANALYSIS REPORT

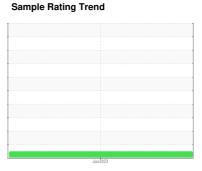
NORMAL



KDAC 200300 Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (40 LTR)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the

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.

N SHP 10W30 (4	0 LTR)			Jun2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0814925		
Sample Date		Client Info		06 Jun 2023		
Machine Age	kms	Client Info		120399		
Oil Age	kms	Client Info		2		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0		
Vater		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>120	41		
Chromium	ppm	ASTM D5185(m)	>20	1		
Nickel	ppm	ASTM D5185(m)	>5	5		
Titanium	ppm	ASTM D5185(m)	>2	<1		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>20	15		
_ead	ppm	ASTM D5185(m)	>40	4		
Copper	ppm	ASTM D5185(m)	>330	110		
Γin	ppm	ASTM D5185(m)	>15	2		
Antimony	ppm	ASTM D5185(m)		<1		
/anadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	4		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	50	72		
Manganese	ppm	ASTM D5185(m)	0	2		
Magnesium	ppm	ASTM D5185(m)	950	912		
Calcium	ppm	ASTM D5185(m)	1050	1196		
Phosphorus	ppm	ASTM D5185(m)	995	889		
Zinc	ppm	ASTM D5185(m)	1180	1102		
Sulfur	ppm	ASTM D5185(m)	2600	2069		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	10		
Sodium	ppm	ASTM D5185(m)		3		
Potassium	ppm	ASTM D5185(m)	>20	33		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.6		
Nitration	Abs/cm	ASTM D7624*	>20	9.9		
Nitration(Diff)	Abs/cm	ASTM D7624*		12.1		
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.0		
O. 15-41 (D15)	A I /	AOTA DELLE		0.4		

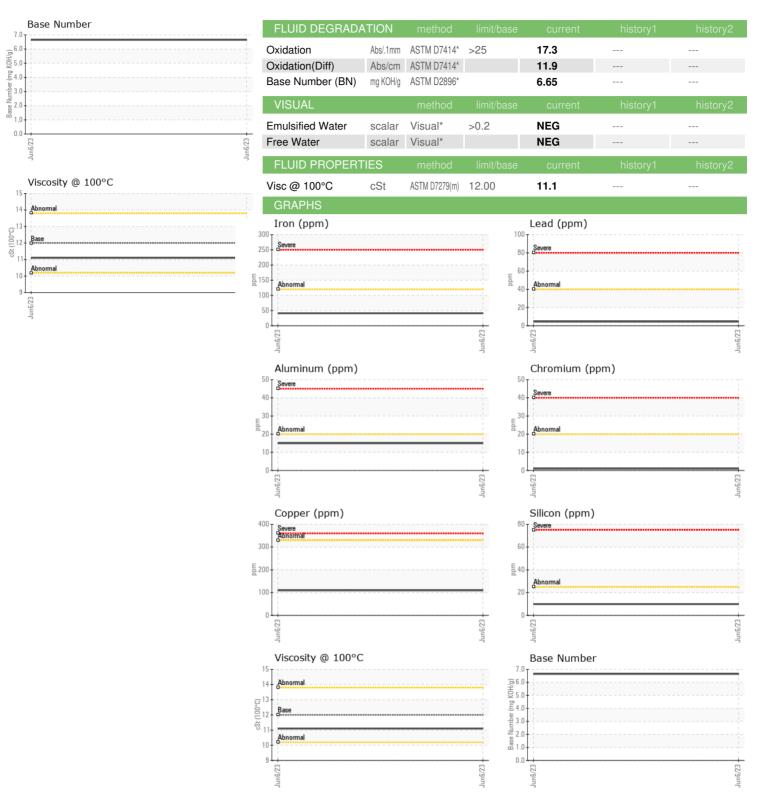
6.4

Sulfation(Diff)

Abs/cm ASTM D7415*



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0814925 : 02562831

: 5591872

Recieved Diagnosed

: 31 Jan 2024 Diagnostician : Bill Quesnel

: 08 Jun 2023

Test Package : MOB 2 (Additional Tests: FT-IR(Diff)) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

WFR Technical Services

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Submitted By: William Ridley