

OIL ANALYSIS REPORT

KDAC 200206

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (40 LTR)

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

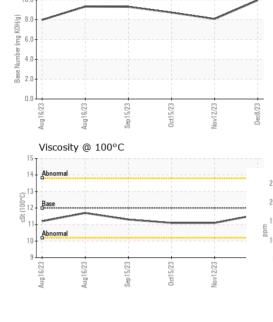
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864705	WC0864681	WC0864668
Sample Date		Client Info		08 Dec 2023	12 Nov 2023	15 Oct 2023
Machine Age	kms	Client Info		245552	229256	211410
Oil Age	kms	Client Info		1	45350	30204
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	2	13	10
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	1	8	7
Lead	ppm	ASTM D5185(m)	>40	<1	2	1
Copper	ppm	ASTM D5185(m)	>330	<1	1	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	6	4	4
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	56	59	60
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	950	927	970	976
Calcium	ppm	ASTM D5185(m)	1050	1026	1058	1068
Phosphorus	ppm	ASTM D5185(m)	995	974	962	976
Zinc	ppm	ASTM D5185(m)		1128	1205	1195
Sulfur	ppm	ASTM D5185(m)	2600	2560	2433	2493
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	5	5
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	2	19	17
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	4.5	7.4	6.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.7	20.0	19.0



Base Number

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FLUID DEGRADA	ATION	method	limit/base	e current	histo	ory1	histo	ry2
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	15.9		14.8	
Base Number (BN)	mg KOH/g	ASTM D2896*		9.96	8.07		8.72	
VISUAL		method	limit/base	e current	histo		histo	ry2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG		.2%	
Free Water	scalar	Visual*		NEG	NEG		<u> 1%</u>	
FLUID PROPERT		method	limit/base		histo	ory1	histo	ry2
Visc @ 100°C GRAPHS	cSt	ASTM D7279(m)	12.00	11.6	11.1		11.1	
Iron (ppm)				Lead (ppm)				
11011 (ppility				100 T				
Severe				80 - Severe				
1			mdd	60				
Abnormal				40 Abnormal		1		
				20				
Aug16/23	Oct15/23	Nov12/23 -	Dec8/23	Aug16/23	Sep15/23 -	Oct15/23 -	Nov12/23 -	
	Oct	Nov	De			Oct	Nov	
Aluminum (ppm)				Chromium (p	opm)			
Severe				40 - Severe				
-			E	30-				
Abnormal				20 - Abnormal				
				10-				
8/23	5/23	2/23 +	Dec8/23	8/23	5/23	5/23	2/23	
Aug16/23 Aug16/23	Oct15/23	Nov12/23	Dec	Aug16/23.	Sep15/23	Oct15/23	Nov12/23	
Copper (ppm)				Silicon (ppm)			
Abnormal								
)+				60				
)+			a	Abnormal				
)+				20			<u>1</u>	
23 23	23	23	23	23	23	23 -	23 -	
Aug16/23 Aug16/23 Sen15/23	Oct15/23	Nov12/23	Dec8/23	Aug16/23	Sep15/23	Oct15/23	Nov12/23	
Viscosity @ 100°C				Base Numbe	r			
Abnormal				8.0		-		
			2	6.0			1	
2 Base			er -					

Base Numbe

0.0

Aug16/23

Sep15/23



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number : 5695302

: WC0864705

: 02602217 Test Package : MOB 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 11 Dec 2023 Diagnosed : 14 Dec 2023

Nov12/23

Diagnostician : Wes Davis

0ct15/23

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.

Aug16/23

Sep15/23

WFR Technical Services

5389 Riverside Drive Burlington, ON CA L7L 3Y1

Nov12/23

Contact: William Ridley wfr.technical.services@gmail.com

T: F: