

OIL ANALYSIS REPORT

DT

Sample Rating Trend

NORMAL



TM2837

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

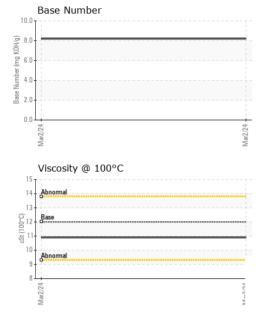
Fluid Condition

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

SAMPLE INFORMATION method milit base current history1 history2 Sample Date Cilent Info 02 Mar 2024							
Continue	AL)				Mar2024		
Company Comp	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Cample Date Client Info 190735	Sample Number		Client Info		PCA0118882		
Dit Age mis			Client Info		02 Mar 2024		
Client Info Changed Client Info NORMAL CONTAMINATION Method Imit/base current history1 history2 Contamination Contamin	Machine Age	mls	Client Info		190735		
CONTAMINATION method limit/base current history1 history2		mls	Client Info		0		
CONTAMINATION method minit/base current history1 history2	Oil Changed		Client Info		Changed		
Vicility Vicinity Vicinity					NORMAL		
Water	CONTAMINAT	TION	method	limit/base	current	history1	history2
WEAR METALS	uel		WC Method	>5	<1.0		
WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185m >100 20 chromium ppm ASTM D5185m >20 <1	Vater		WC Method	>0.2	NEG		
Con	Slycol		WC Method		NEG		
Concord	WEAR METAL	S	method	limit/base	current	history1	history2
Stromium ppm ASTM D5185m >20 <1							
Sickel ppm ASTM D5185m >4 0	-			7.00			
Silver							
Stilver				>4			
ASTM D5185m >20				. 0	-		
Accepted							
Description							
Standard							
Anadium							
ADDITIVES				>15			
ADDITIVES							
Sarium		ppm					
Description						history1	history2
Molybdenum ppm ASTM D5185m 50 65 Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 950 937 Calcium ppm ASTM D5185m 1050 1070 Phosphorus ppm ASTM D5185m 1180 1188 Zinc ppm ASTM D5185m 2600 2926 Sulfur ppm ASTM D5185m 2600 2926 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 25 4 Potassium ppm ASTM D5185m 20 3 Potassium ppm ASTM D5185m 20 3 Soot % *ASTM D7844 >3							
Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 950 937 Calcium ppm ASTM D5185m 1050 1070 Phosphorus ppm ASTM D5185m 995 1004 Zinc ppm ASTM D5185m 2600 2926 Sulfur ppm ASTM D5185m 2600 2926 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 Soot % *ASTM D7844 >3		ppm	ASTM D5185m		-		
Magnesium ppm ASTM D5185m 950 937 Calcium ppm ASTM D5185m 1050 1070 Phosphorus ppm ASTM D5185m 995 1004 Cinc ppm ASTM D5185m 1180 1188 Sulfur ppm ASTM D5185m 2600 2926 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Potassium ppm ASTM D5185m >20 3 Potassium ppm ASTM D7844<	•	ppm					
Calcium ppm ASTM D5185m 1050 1070 Phosphorus ppm ASTM D5185m 995 1004 Cinc ppm ASTM D5185m 1180 1188 Sulfur ppm ASTM D5185m 2600 2926 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 8.9 Soulfation Abs/.1mm *ASTM D7414 >25	•	ppm	ASTM D5185m		-		
Phosphorus		ppm					
Sinc	Calcium	ppm	ASTM D5185m				
Sulfur ppm ASTM D5185m 2600 2926 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 3 INFRA-RED method limit/base current history1 history2 Boot % *ASTM D7844 >3 0.4 Bulfation Abs/cm *ASTM D7624 >20 8.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3	hosphorus	ppm	ASTM D5185m	995	1004		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 Silitration Abs/cm *ASTM D7624 >20 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3	-	ppm			1188		
Solicon ppm ASTM D5185m >25 4	Sulfur	ppm	ASTM D5185m	2600	2926		
Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 3 INFRA-RED method limit/base current history1 history2 Goot % % *ASTM D7844 >3 0.4 Sultration Abs/cm *ASTM D7624 >20 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3	CONTAMINAN	NTS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 3 INFRA-RED method limit/base current history1 history2 Boot % % *ASTM D7844 >3 0.4 Sultration Abs/cm *ASTM D7624 >20 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3	Silicon	ppm	ASTM D5185m	>25	4		
INFRA-RED	Sodium	ppm	ASTM D5185m		2		
Goot % % *ASTM D7844 >3 0.4 Vitration Abs/cm *ASTM D7624 >20 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3	Potassium	ppm	ASTM D5185m	>20	3		
Nitration Abs/cm *ASTM D7624 >20 8.9 Sulfation Abs/.1mm *ASTM D7415 >30 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3	Soot %	%	*ASTM D7844	>3	0.4		
Sulfation Abs/.1mm *ASTM D7415 >30 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.3	litration	Abs/cm	*ASTM D7624	>20	8.9		
Oxidation Abs/.1mm *ASTM D7414 >25 16.3	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3		
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	 Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3		
	Base Number (BN)	mg KOH/g	ASTM D2896		8.2		



OIL ANALYSIS REPORT





Visc @ 100°C	cSt	ASTM D445	12.00	10.9		
GRAPHS						
Iron (ppm)				Lead (ppm)	
200 Severe				Severe		
				E 60		
150 100 - Abnormal				Abnormal		-
50				20		
0 Mar2/24 + 1			Mar2/24	O Mar2/24 		Mar2/24
Mar			Mar	Mar		Mar
Aluminum (ppm)				Chromium 50 T	(ppm)	
40 Severe				Severe		
E 30				E 30		
Abnormal				Abnormal		-
10				10		
Mar2/24			Mar2/24 ·	Mar2/24		Mar2/24 -
			Σ			≥
Copper (ppm) 400 Severe				Silicon (ppr	m) 	
Abirormal				60		
E 200				E 40		
100				Abnormal 20		
0				0		
Mar2/24			Mar2/24 -	Mar2/24		Mar2/24 -
Viscosity @ 100°	С			Base Numb	per	_
16				10.0 T		
14 - Abnormal				8.0 B 8.0		
(5) 00 12 Base				4.0		
Abnormal				8.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		
8745			1/24	0.0		
Mar2/24			Mar2/24	Mar2/24		Mar2/24 -





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0118882 Lab Number : 06116701

Tested Unique Number: 10925534

Received : 13 Mar 2024 : 14 Mar 2024 Diagnosed : 14 Mar 2024 - Wes Davis

HASBROUCK HEIGHTS, NJ

US 07604 Contact: ALDO LAIN

39 INDUSTRIAL AVE

MILLER TRUCK LEASING #119

Test Package : MOB 1 (Additional Tests: TBN) alain@millertransgroup.com 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)

F: (201)528-7053 Contact/Location: ALDO LAIN - MILRUT

T: (201)528-7293