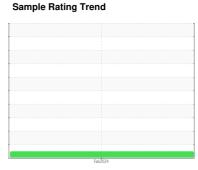


OIL ANALYSIS REPORT

RT



NORMAL



Machine Id 111055

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (--- QTS

DIAGNOSIS

Recommendation

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

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

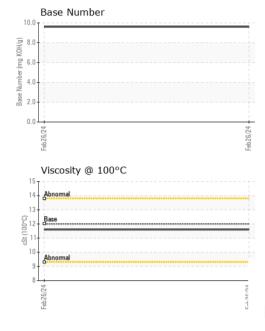
Fluid Condition

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

SAMPLE INFORMATION method Imit/base current history1 history2	- 0'						
Client Info PCA0093352 Client PCA00	TS)				Feb2024		
Cample Date Client Info 26 Feb 2024	SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Machine Age mls	Sample Number		Client Info		PCA0093352		
Dil Age	Sample Date		Client Info		26 Feb 2024		
Contample Client Info Not Change Client Info NoRMAL Contample Status Contam	Machine Age	mls	Client Info		48918		
CONTAMINATION method mill/base current history1 history2	Oil Age	mls	Client Info		0		
CONTAMINATION	Oil Changed		Client Info		Not Changd		
Water WC Method So.2 NEG NEG So.2 NEG	Sample Status				NORMAL		
Wester Wc Method Wc Method Wc Method Wc Method NEG Wc Method Wc Method NEG Wc Method Wc Meth	CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>5	<1.0		
WEAR METALS method limit/base current history1 history2 iron ppm ASTM D5185m >100 15 Chromium ppm ASTM D5185m 20 <1	Water		WC Method	>0.2	NEG		
Chromium	Glycol		WC Method		NEG		
Chromium	WEAR METAL	_S	method	limit/base	current	history1	history2
Strickel	ron	ppm	ASTM D5185m	>100	15		
Titanium	Chromium	ppm	ASTM D5185m	>20	<1		
Salver	Nickel	ppm	ASTM D5185m	>4	<1		
Aluminum	Γitanium	ppm	ASTM D5185m		1		
ASTM D5185m SATM D5185m	Silver	ppm	ASTM D5185m	>3	0		
Copper	Aluminum	ppm	ASTM D5185m	>20	3		
Act	_ead	ppm	ASTM D5185m	>40	<1		
Acade	Copper	ppm	ASTM D5185m	>330	4		
ADDITIVES		ppm	ASTM D5185m	>15	<1		
ADDITIVES method limit/base current history1 history2	/anadium	ppm	ASTM D5185m		<1		
Soron ppm ASTM D5185m 2 7	Cadmium	ppm	ASTM D5185m		<1		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 50 47 Manganese ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m	2	7		
Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 950 713 Calcium ppm ASTM D5185m 1050 1249 Phosphorus ppm ASTM D5185m 995 1008 Zinc ppm ASTM D5185m 1180 1195 Sulfur ppm ASTM D5185m 2600 3664 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >25 7 Solicon ppm ASTM D5185m 3 Potassium ppm ASTM D5185m >20 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4	Barium	ppm	ASTM D5185m	0	0		
Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 950 713 Calcium ppm ASTM D5185m 1050 1249 Phosphorus ppm ASTM D5185m 995 1008 Zinc ppm ASTM D5185m 2600 3664 Sulfur ppm ASTM D5185m 2600 3664 CONTAMINANTS method limit/base current history1 history2 Soliticon ppm ASTM D5185m >25 7 Godium ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 INFRA-RED method limit/base current history1 history2 Solf and *ASTM D7844 >3	Molybdenum	ppm	ASTM D5185m	50	47		
Calcium ppm ASTM D5185m 1 050 1249 Phosphorus ppm ASTM D5185m 995 1008 Zinc ppm ASTM D5185m 1180 1195 Sulfur ppm ASTM D5185m 2600 3664 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 Sodium ppm ASTM D5185m 3 Potassium ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 7.0 Sulfation Abs/.1mm *ASTM D7415 >30 17.3 <td>-</td> <td></td> <td>ASTM D5185m</td> <td>0</td> <td><1</td> <td></td> <td></td>	-		ASTM D5185m	0	<1		
Calcium ppm ASTM D5185m 1 050 1249 Phosphorus ppm ASTM D5185m 995 1008 Zinc ppm ASTM D5185m 1180 1195 Sulfur ppm ASTM D5185m 2600 3664 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 Godium ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 Potassium ppm ASTM D7844 >3 0.4 Soot % % *ASTM D7844 >3 0.4 Sulfation Abs/.1mm *ASTM D7415 <td>Magnesium</td> <td></td> <td>ASTM D5185m</td> <td>950</td> <td>713</td> <td></td> <td></td>	Magnesium		ASTM D5185m	950	713		
Zinc ppm ASTM D5185m 1180 1195 Sulfur ppm ASTM D5185m 2600 3664	-		ASTM D5185m	1050	1249		
Zinc ppm ASTM D5185m 1180 1195 Sulfur ppm ASTM D5185m 2600 3664 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 Sodium ppm ASTM D5185m 3 Potassium ppm ASTM D5185m >20 2 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7844 >3 0.4 Nitration Abs/cm *ASTM D7624 >20 7.0 Sulfation Abs/.1mm *ASTM D7415 >30 17.3 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 13.0	Phosphorus	ppm	ASTM D5185m	995	1008		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 Sodium ppm ASTM D5185m 3 Potassium ppm ASTM D5185m >20 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 Sulfration Abs/.m *ASTM D7624 >20 7.0 Sulfation Abs/.1mm *ASTM D7415 >30 17.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0	Zinc	ppm	ASTM D5185m	1180	1195		
Solition ppm ASTM D5185m >25 7	Sulfur	ppm	ASTM D5185m	2600	3664		
Sodium	CONTAMINA	NTS	method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m 3	Silicon	ppm	ASTM D5185m	>25	7		
Potassium ppm ASTM D5185m >20 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 Nitration Abs/cm *ASTM D7624 >20 7.0 Sulfation Abs/.1mm *ASTM D7415 >30 17.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0	Sodium		ASTM D5185m		3		
Soot % % *ASTM D7844 >3 0.4 Nitration Abs/cm *ASTM D7624 >20 7.0 Sulfation Abs/.1mm *ASTM D7415 >30 17.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0	Potassium		ASTM D5185m	>20	2		
Nitration Abs/cm *ASTM D7624 >20 7.0 Sulfation Abs/.1mm *ASTM D7415 >30 17.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 17.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0	Soot %	%	*ASTM D7844	>3	0.4		
Sulfation Abs/.1mm *ASTM D7415 >30 17.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0	Vitration	Abs/cm	*ASTM D7624	>20	7.0		
Oxidation							
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0		
	Base Number (BN)	mg KOH/g	ASTM D2896	-	9.6		



OIL ANALYSIS REPORT





Visc @ 100°C	cSt	ASTM D445	12.00	11.6		
GRAPHS						
Iron (ppm)				Lead (ppm)	
Severe				Severe		
Abnormal				E 60 Abnormal		
1		***************************************	-	40 T		
50				20		
Feb26/24			Feb26/24	Feb26/24		
			귤		(nnm)	i
Aluminum (ppm)				Chromium 50 T	(ppm)	
Severe			-	40 Severe		
Abnormal				Abnormal		
10				10		
0				0 4		
Feb 2 6/2 4			Feb26/24	Feb26/24		
Copper (ppm)				Silicon (ppr	m)	
Severe Submonnal				80 - Severe		
0				60+		
0				Abnormal		
0				20		
Feb26/24			Feb26/24	Feb26/24		
	_		Feb			
Viscosity @ 100°	C 			Base Numb	oer	
4 - Abnormal				0.8 KOH/g		
Z Base				6.0		
0 - Abnormal				8.0 6.0 6.0 4.0 4.0 2.0 4.0 4.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6		
8			-	0.0		
Feb26/24			Feb26/24	Feb26/24		

:01 Mar 2024

: 01 Mar 2024





Certificate L2367

Laboratory Sample No.

: PCA0093352 Lab Number : 06105729 Unique Number : 10903959

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed : 01 Mar 2024 - Wes Davis

Test Package : MOB 1 (Additional Tests: TBN)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

MILLER TRUCK LEASING #117

2666 LEISCZS BRIDGE RD LEESPORT, PA

US 19533 Contact: JAMEY RITZ

jritz@millertransgroup.com

T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)