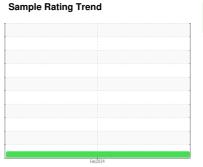


OIL ANALYSIS REPORT



NORMAL



Machine Id V3612 Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- 0

DIAGNOSIS

Recommendation

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

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

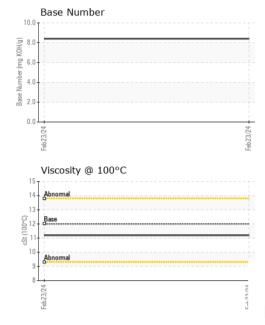
Fluid Condition

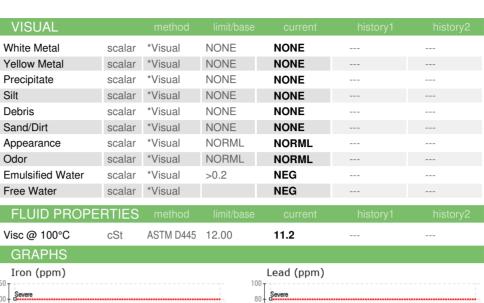
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info 23 Feb 2024 Machine Age mls Client Info 0							
Cample Number Client Info PCA0099371	AL)				Feb2024		
Cample Date Client Info 23 Feb 2024	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Machine Age mls	Sample Number		Client Info		PCA0099371		
Dit Changed	Sample Date		Client Info		23 Feb 2024		
Client Info Changed Client Info NORMAL CONTAMINATION Method Imit/base current history1 history2 Mater WC Method >0.2 NEG Contamination Neg Con	Machine Age	mls	Client Info		155666		
CONTAMINATION method minit/base current history1 history2 water WC Method >5 <1.0 water WC Method >0.2 NEG water WC Method NEG water WE Method NEG water www. MEG water www. MEG water www. MEG water www. MEG water w	Dil Age	mls	Client Info		0		
CONTAMINATION	Oil Changed		Client Info		Changed		
Victor V	Sample Status				NORMAL		
Water WC Method So.2 NEG Silycol WC Method NEG Silycol WC Method NEG Silycol WC Method NEG Silycol WC Method Similibase Current Silycory S	CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
WEAR METALS	uel		WC Method	>5	<1.0		
WEAR METALS method limit/base current history1 history2 fron ppm ASTM D5185m >100 32	Vater		WC Method	>0.2	NEG		
Chromium	Glycol		WC Method		NEG		
ASTM D5185m	WEAR METAL	_S	method	limit/base	current	history1	history2
Silver	on	ppm	ASTM D5185m	>100	32		
Silver	Chromium	ppm	ASTM D5185m	>20	2		
Silver	Nickel	ppm	ASTM D5185m	>4	<1		
Ast Ast	- itanium	ppm	ASTM D5185m		<1		
December December	Silver	ppm	ASTM D5185m	>3	0		
Description	Aluminum	ppm	ASTM D5185m	>20	9		
Description	_ead	ppm	ASTM D5185m	>40	<1		
Acade Acad	Copper	ppm	ASTM D5185m	>330	8		
Anadium			ASTM D5185m	>15	<1		
ADDITIVES	/anadium		ASTM D5185m		<1		
Soron ppm ASTM D5185m 2 11	Cadmium		ASTM D5185m		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 50 61 Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 950 1086 Calcium ppm ASTM D5185m 1050 1318 Phosphorus ppm ASTM D5185m 1096 Zinc ppm ASTM D5185m 1180 1425 Sulfur ppm ASTM D5185m 2600 3607 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 Potassium ppm ASTM D5185m >20 9 Potassium ppm ASTM D5185m >20 9 Soot % *ASTM D7844 >3 0.3 <td>Boron</td> <td>ppm</td> <td>ASTM D5185m</td> <td>2</td> <td>11</td> <td></td> <td></td>	Boron	ppm	ASTM D5185m	2	11		
Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 950 1086 Calcium ppm ASTM D5185m 1050 1318 Phosphorus ppm ASTM D5185m 995 1096 Zinc ppm ASTM D5185m 1180 1425 Sulfur ppm ASTM D5185m 2600 3607 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 Godium ppm ASTM D5185m >20 9 Potassium ppm ASTM D5185m >20 9 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7844 >3	Barium	ppm	ASTM D5185m	0	0		
Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 950 1086 Calcium ppm ASTM D5185m 1050 1318 Phosphorus ppm ASTM D5185m 995 1096 Zinc ppm ASTM D5185m 2600 3607 Sulfur ppm ASTM D5185m 2600 3607 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 Goldium ppm ASTM D5185m >20 9 Potassium ppm ASTM D5185m >20 9 INFRA-RED method limit/base current history1 history2 Silicon Abs/cm *ASTM D7624 <td>Molybdenum</td> <td>ppm</td> <td>ASTM D5185m</td> <td>50</td> <td>61</td> <td></td> <td></td>	Molybdenum	ppm	ASTM D5185m	50	61		
Magnesium ppm ASTM D5185m 950 1086 Calcium ppm ASTM D5185m 1050 1318 Phosphorus ppm ASTM D5185m 995 1096 Zinc ppm ASTM D5185m 1180 1425 Sulfur ppm ASTM D5185m 2600 3607 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 Potassium ppm ASTM D5185m >20 9 Potassium ppm ASTM D5185m >20 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 Sulfation Abs/.1mm *ASTM D7415<	-		ASTM D5185m	0	<1		
Calcium ppm ASTM D5185m 1 050 1318 Phosphorus ppm ASTM D5185m 995 1096 Pinc ppm ASTM D5185m 1180 1425 Sulfur ppm ASTM D5185m 2600 3607 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >25 3 Solium ppm ASTM D5185m >20 9 Potassium ppm ASTM D5185m >20 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 Soulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION *ASTM D7414 <	/lagnesium		ASTM D5185m	950	1086		
Phosphorus ppm ASTM D5185m 995 1096 Zinc ppm ASTM D5185m 1180 1425 Sulfur ppm ASTM D5185m 2600 3607 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >25 3 Solicon ppm ASTM D5185m 20 9 Potassium ppm ASTM D5185m >20 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D	-		ASTM D5185m	1050	1318		
Time	Phosphorus		ASTM D5185m	995	1096		
Gulfur ppm ASTM D5185m 2600 3607 CONTAMINANTS method limit/base current history1 history2 Gilicon ppm ASTM D5185m >25 3 Godium ppm ASTM D5185m 1 Potassium ppm ASTM D5185m >20 9 INFRA-RED method limit/base current history1 history2 Goot % % *ASTM D7844 >3 0.3 Sulfration Abs/.1mm *ASTM D7624 >20 6.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.7			ASTM D5185m	1180	1425		
Solicon ppm ASTM D5185m >25 3					3607		
Sodium	CONTAMINAN	NTS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 9 INFRA-RED method limit/base current history1 history2 Boot % % *ASTM D7844 >3 0.3 Sultration Abs/cm *ASTM D7624 >20 6.6 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.7	Silicon	ppm	ASTM D5185m	>25	3		
Potassium ppm ASTM D5185m >20 9 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 Vitration Abs/cm *ASTM D7624 >20 6.6 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.7							
Goot % % *ASTM D7844 >3 0.3 Nitration Abs/cm *ASTM D7624 >20 6.6 Gulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.7	Potassium			>20			
Nitration Abs/cm *ASTM D7624 >20 6.6 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.7	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 13.7	Soot %	%	*ASTM D7844	>3	0.3		
Sulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.7	Vitration	Abs/cm	*ASTM D7624	>20	6.6		
Dxidation Abs/.1mm *ASTM D7414 >25 13.7							
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7		
	Base Number (BN)	mg KOH/g	ASTM D2896		8.4		



OIL ANALYSIS REPORT





Visc @ 100°C	cSt	ASTM D445	12.00	11.2		
GRAPHS						
Iron (ppm)				Lead (ppm)	
Severe				Severe		
E 150				E 60 Abnormal		
150 Abnormal				10 7		
50				20		
Feb23/24			Feb23/24	Feb23/24		Feb23/24
			Feb2			Feb2
Aluminum (ppm)				Chromium 50 T	(ppm)	
40 Severe				40 Severe		
Abnormal				20 Abnormal		
10+		***************************************		10+	***************************************	_
0				0		
Feb 23/24			Feb23/24	Feb23/24		Feb23/24
ம Copper (ppm)			굔	్లి Silicon (ppi	m)	2
400 Severe Publication				80 Severe		
300				60		
튭 200 -				E 40		
100				Abnormal		
0 2			24	0 2		54
Feb 23/24			Feb23/24	Feb23/24		Feb23/24
Viscosity @ 100°	С			Base Numl	ber	
16 T				(B)HO(8.0		
Abnormal				8.0 - 6.0 - 6.0 - 4.0 - 2.0 - 4.0 - 7.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 - 6.0 -		
= 12+ 		***************************************		4.0		
Abnormal				2.0 -		
3/24 + 4			3/24	3/24		Feb 23/24
Feb23/24			Feb23/24	Feb23/24		Feb2





Certificate L2367

Laboratory Sample No.

Lab Number : 06104120 Unique Number: 10902350

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0099371

Test Package : MOB 1 (Additional Tests: TBN)

Received **Tested**

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

Diagnosed

: 29 Feb 2024 : 29 Feb 2024 - Wes Davis

: 29 Feb 2024

361 ROUTE 312 BREWSTER, NY US 10509

MILLER TRUCK LEASING #137

Contact: Robert Beckhusen rbeckhusen@millertransgroup.com T: (845)779-1064

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.

F: