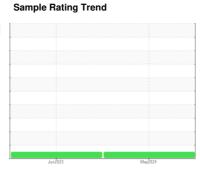


OIL ANALYSIS REPORT

-







873
Component
Diesel Engine

Machine Id

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

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

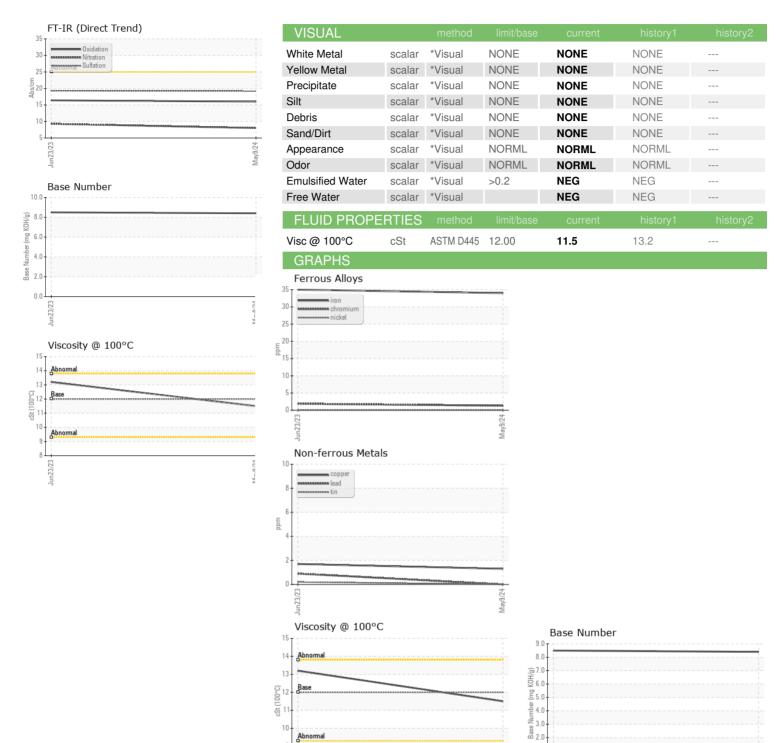
Fluid Condition

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

Water							
Cample Number Client Info Decade Decad	rs)			Jun 2023	May2024		
Cample Number Client Info Decade Decad	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Cample Date Client Info 09 May 2024 23 Jun 2023					PCA0124599	PCA0099804	
Machine Age mls					09 May 2024	23 Jun 2023	
Dit Age	•	mls			•		
Changed Changed Changed Changed Changed Changed NORMAL NORMAL CONTAMINATION Method So Current history1 history2 Silicon Ppm ASTM D5185m Carrent ASTM D5185m Carrent ASTM D5185m Carrent Carren							
CONTAMINATION	-	0					
Vicinity Vicinity					_	Ü	
Water WC Method >0.2 NEG NEG		ION	method	limit/base	current	history1	history2
Weight Wideling	-uel		WC Method	>5	<1.0	<1.0	
WEAR METALS						NFG	
WEAR METALS				7 0.2			
Chromium ppm ASTM D5185m >20	•						
Description	WEAR METAL	S	method	limit/base	current	history1	history2
Strickel ppm ASTM D5185m >4 0 0 0	ron	ppm	ASTM D5185m	>100	34	35	
Silver	Chromium	ppm	ASTM D5185m	>20	1	2	
Silver	lickel	ppm	ASTM D5185m	>4	0	0	
ASTM D5185m >20 3 6	itanium	ppm	ASTM D5185m		0	<1	
Accepted	Silver	ppm	ASTM D5185m	>3	0	0	
Copper	Numinum	ppm	ASTM D5185m	>20	3	6	
Academium	ead	ppm	ASTM D5185m	>40	0	<1	
Anadium	Copper	ppm	ASTM D5185m	>330	1	2	
ADDITIVES	in	ppm	ASTM D5185m	>15	0	<1	
ADDITIVES	/anadium	ppm	ASTM D5185m		<1	0	
Soron ppm ASTM D5185m 2 0 16	Cadmium	ppm	ASTM D5185m		0	0	
Sarium	ADDITIVES		method	limit/base	current	history1	history2
Starium	Boron	ppm	ASTM D5185m	2	0	16	
Manganese ppm ASTM D5185m 0 <1 <1 Magnesium ppm ASTM D5185m 950 1051 994 Calcium ppm ASTM D5185m 1050 1225 1510 Phosphorus ppm ASTM D5185m 995 1136 1186 Zinc ppm ASTM D5185m 180 1352 1490 Sulfur ppm ASTM D5185m 2600 3719 4184 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 8 12 Codium ppm ASTM D5185m >20 0 3 Potassium ppm ASTM D5185m >20 0 3 Potassium ppm ASTM D5185m >20 0 3 Potassium ppm ASTM D5185m	Barium		ASTM D5185m	0	0	0	
Manganese ppm ASTM D5185m 0 <1 <1 Magnesium ppm ASTM D5185m 950 1051 994 Calcium ppm ASTM D5185m 1050 1225 1510 Phosphorus ppm ASTM D5185m 995 1136 1186 Zinc ppm ASTM D5185m 180 1352 1490 Sulfur ppm ASTM D5185m 2600 3719 4184 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 8 12 Codium ppm ASTM D5185m >20 0 3 Potassium ppm ASTM D5185m >20 0 3 Potassium ppm ASTM D5185m >20 0 3 Potassium ppm ASTM D5185m	Molybdenum	ppm	ASTM D5185m	50	63	58	
Magnesium ppm ASTM D5185m 950 1051 994 Calcium ppm ASTM D5185m 1050 1225 1510 Phosphorus ppm ASTM D5185m 995 1136 1186 Zinc ppm ASTM D5185m 1180 1352 1490 Sulfur ppm ASTM D5185m 2600 3719 4184 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 8 12 Sodium ppm ASTM D5185m >20 0 3 Potassium ppm ASTM D5185m >20 0 3 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7624 >20 8.0 9.3 Gulfation Abs/.1mm *ASTM D7414 >25 </td <td></td> <td></td> <td>ASTM D5185m</td> <td>0</td> <th><1</th> <td><1</td> <td></td>			ASTM D5185m	0	<1	<1	
Calcium ppm ASTM D5185m 1050 1225 1510 Phosphorus ppm ASTM D5185m 995 1136 1186 Zinc ppm ASTM D5185m 1180 1352 1490 Sulfur ppm ASTM D5185m 2600 3719 4184 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >25 8 12 Solicon ppm ASTM D5185m 2 3 Potassium ppm ASTM D5185m >20 0 3 INFRA-RED method limit/base current history1 history2 Soot % "ASTM D7844 >3 0.5 0.5 Witration Abs/cm "ASTM D7624 >20 8.0 9.3 FLUID DEGRADATION method limit/base current	•		ASTM D5185m	950	1051	994	
Phosphorus ppm ASTM D5185m 995 1136 1186 Finc ppm ASTM D5185m 1180 1352 1490 Sulfur ppm ASTM D5185m 2600 3719 4184 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 8 12 Sodium ppm ASTM D5185m 2 3 Potassium ppm ASTM D5185m >20 0 3 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7844 >3 0.5 0.5 Julfation Abs/cm *ASTM D7624 >20 8.0 9.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16	Calcium		ASTM D5185m	1050		1510	
Contamination Contaminatio Contamination Contamination Contamination Contamination	hosphorus				1136	1186	
Sulfur ppm ASTM D5185m 2600 3719 4184 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 8 12 Sodium ppm ASTM D5185m 2 3 Potassium ppm ASTM D5185m >20 0 3 INFRA-RED method limit/base current history1 history2 Goot % % *ASTM D7844 >3 0.5 0.5 Sulfration Abs/cm *ASTM D7624 >20 8.0 9.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.0 16.4			ASTM D5185m	1180	1352	1490	
Solicon ppm ASTM D5185m >25 8 12	Sulfur				3719	4184	
Sodium ppm ASTM D5185m 2 3 Potassium ppm ASTM D5185m >20 0 3 INFRA-RED method limit/base current history1 history2 Soot % "ASTM D7844 >3 0.5 0.5 Vitration Abs/cm "ASTM D7624 >20 8.0 9.3 Sulfation Abs/.1mm "ASTM D7415 >30 19.2 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm "ASTM D7414 >25 16.0 16.4	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m 2 3 Potassium ppm ASTM D5185m >20 0 3 INFRA-RED method limit/base current history1 history2 Soot % "ASTM D7844 >3 0.5 0.5 Vitration Abs/cm "ASTM D7624 >20 8.0 9.3 Sulfation Abs/.1mm "ASTM D7415 >30 19.2 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm "ASTM D7414 >25 16.0 16.4	Silicon	ppm	ASTM D5185m	>25	8	12	
Potassium ppm ASTM D5185m >20 0 3 INFRA-RED method limit/base current history1 history2 Boot % *ASTM D7844 >3 0.5 0.5 Vitration Abs/cm *ASTM D7624 >20 8.0 9.3 Sulfation Abs/.1mm *ASTM D7415 >30 19.2 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.0 16.4	Sodium						
Goot % % *ASTM D7844 >3 0.5 0.5 Nitration Abs/cm *ASTM D7624 >20 8.0 9.3 Sulfation Abs/.1mm *ASTM D7415 >30 19.2 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.0 16.4	otassium		ASTM D5185m	>20	0		
Nitration Abs/cm *ASTM D7624 >20 8.0 9.3 Sulfation Abs/.1mm *ASTM D7415 >30 19.2 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.0 16.4	INFRA-RED_		method	limit/base	current	history1	history2
Nitration Abs/cm *ASTM D7624 >20 8.0 9.3 Sulfation Abs/.1mm *ASTM D7415 >30 19.2 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.0 16.4	Soot %	%	*ASTM D7844	>3	0.5	0.5	
Sulfation Abs/.1mm *ASTM D7415 >30 19.2 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.0 16.4							
FLUID DEGRADATION method limit/base current history1 history2 Dividation Abs/.1mm *ASTM D7414 >25 16.0 16.4							
Oxidation Abs/.1mm *ASTM D7414 >25 16.0 16.4	FLUID DEGRAI	OAT <u>ION</u>	method_		current_		history2
						· ·	
STEE NUMBER (SIM) MAKINA ASTALLIZADA UZA	Base Number (BN)	mg KOH/g	ASTM D7414 ASTM D2896	<i>></i> 20	8.4	8.5	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06193550 Unique Number : 11050302

: PCA0124599 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 May 2024 **Tested** : 30 May 2024

Diagnosed

: 30 May 2024 - Wes Davis

1.0 0.0

> 114 PA-660 MANSFIELD, PA US 16933

GAS FIELD SPECIALISTS

Contact: TARA MUIRHEAD tara.muirhead@gfsinc.net T:

* - 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)

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