

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

NOT GIVEN PCA0113575

Component Diesel Engine Fluid 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.

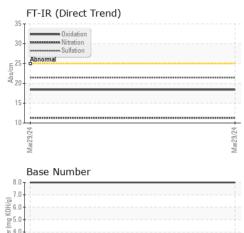
Fluid Condition

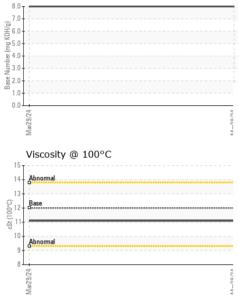
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113575		
Sample Date		Client Info		29 Mar 2024		
Machine Age	mls	Client Info		0		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	28		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>4	1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	5		
Lead	ppm	ASTM D5185m	>40	3		
Copper	ppm	ASTM D5185m	>330	27		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2		
Barium	ppm	ASTM D5185m	0	<1		
Molybdenum						
	ppm	ASTM D5185m	50	64		
Manganese	ppm ppm	ASTM D5185m ASTM D5185m	50 0	64 2		
-				-		
Manganese	ppm	ASTM D5185m	0	2		
Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m	0 950	2 898		
Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 950 1050	2 898 1161		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 950 1050 995	2 898 1161 1105		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	0 950 1050 995 1180	2 898 1161 1105 1200	 	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 950 1050 995 1180 2600	2 898 1161 1105 1200 3185 current 5	 	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	0 950 1050 995 1180 2600 limit/base >25	2 898 1161 1105 1200 3185 current 5 4	 history1	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 950 1050 995 1180 2600 limit/base	2 898 1161 1105 1200 3185 current 5	 history1 	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	0 950 1050 995 1180 2600 limit/base >25	2 898 1161 1105 1200 3185 current 5 4 7 current	 history1 	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	0 950 1050 995 1180 2600 limit/base >25 >20	2 898 1161 1105 1200 3185 current 5 4 7 7 current 1.3	 history1 	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m	0 950 1050 995 1180 2600 limit/base >25 >20 limit/base	2 898 1161 1105 1200 3185 current 5 4 7 current 1.3 11.3	 history1 history1	 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	0 950 1050 995 1180 2600 limit/base >25 >20 limit/base >3	2 898 1161 1105 1200 3185 current 5 4 7 7 current 1.3	 history1 history1 	 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 950 1050 995 1180 2600 limit/base >25 >20 limit/base >3 >20	2 898 1161 1105 1200 3185 current 5 4 7 current 1.3 11.3	 history1 history1 history1	 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7844	0 950 1050 995 1180 2600 imit/base >25 >20 imit/base >3 >20 >30	2 898 1161 1105 1200 3185 current 5 4 7 current 1.3 11.3 21.4	 history1 history1 history1	 history2 history2



OIL ANALYSIS REPORT





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Laboratory Sample No. Lab Number

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
/isc @ 100°C	cSt	ASTM D445	12.00	11.1		
GRAPHS						
Iron (ppm)			100	Lead (ppm)		
Severe			80	Severe		
			60			
Abnormal			قط 40	Abnormal		
-			20			
			0	L		
Mar29/24			Mar29/24	Mar29/24		
			Mar			
Aluminum (ppm)			50	Chromium (p	opm)	
Severe			50	Severe		
			40	-		
Abnormal			E 20	Abnormal		
+ Q						
			10			
9/24				9/24		
Mar29/24			Mar29/24	Mar29,24		
Copper (ppm)				Silicon (ppm))	
Severe			80	Severe		
			60			
			틆 40			
•			20	Abnormal		
			20			
24			0	24		
Mar29/24			Mar29/24	Mar29/24		
≥ Viscosity @ 100°C			2	≥ Base Numbe	r	:
Viscosity @ 100 C			8.0	T		
Abnormal			B/HOX 6.0			
Base			Bul)			
			(DH) HOX 6.0 Bu Ja 4.0 Wu 2.0 Bg			
Abnormal			Ž 2.0	• • • • • • • • • • • • • • •		
			0.0	L.,		
Mar29/24			Mar29/24	Mar29/24		
M			Mai	Ma		:
earCheck USA - 501					ILLER TRUCK	
CA0113575	Recei		2 Apr 2024		63 REPAUPO S	TATION ROA
6146915	Teste		5 Apr 2024			OWNSHIP, N



 Unique Number
 : 10976993
 Diagnosed
 : 15 Apr 2024 - Wes Davis

 Certificate 12367
 Test Package
 : MOB 1 (Additional Tests: TBN)
 edavis

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

 * - 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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Contact/Location: ED DAVIS - MILLOG

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Contact: ED DAVIS

T: (856)214-3521

F: (856)214-3663

edavis@millertransgroup.com