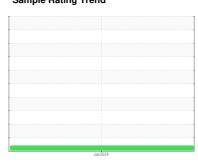


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



DFA26872

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

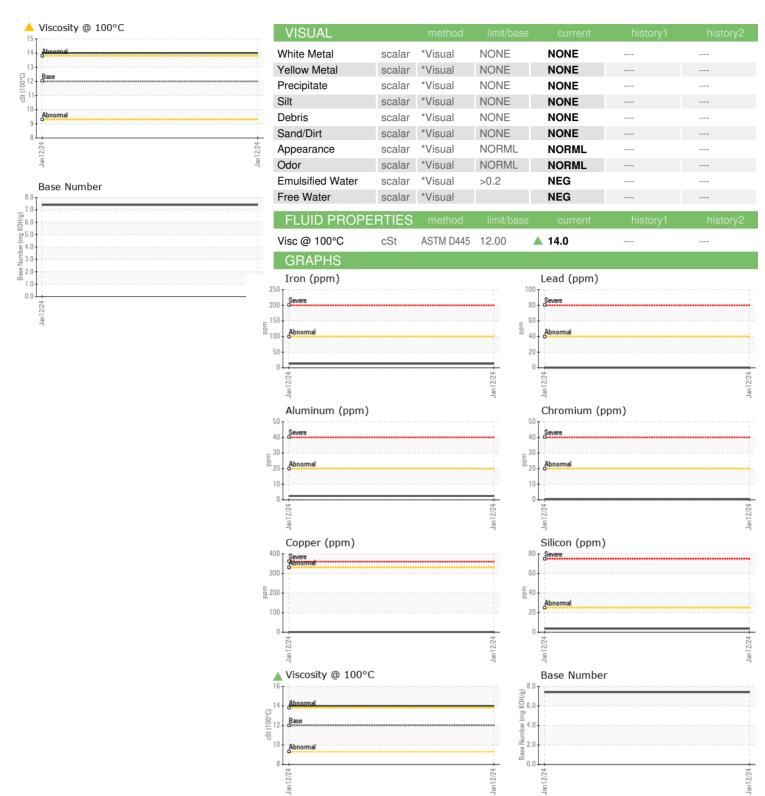
▲ Fluid Condition

The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Cample Number Client Info PCA0115257	TS)			Jan2024			
Client Info	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age mls Client Info 0 Dil Age mls Client Info 0 Dil Age mls Client Info 0 Dil Changed Client Info N/A Sample Status ATTENTION Sample Status ATTENTION CONTAMINATION method minit/base current history1 history2 Full WC Method NEG Mater WC Method NEG Mater WC Method NEG Mater WC Method NEG Mater WC Method NEG Method NEG Method NEG Method NEG Method Method NEG Method NEG Method Method Method NEG Method Method NEG Method Method NEG Method Method NEG Method Method Method NEG Method Method Method NEG Method Method Method Method NEG Metho	Sample Number		Client Info		PCA0115257		
Dil Age	Sample Date		Client Info		12 Jan 2024		
Contamped Client Info N/A ATTENTION Contamped Sample Status Contamped Status	Machine Age	mls	Client Info		0		
CONTAMINATION method limit/base current history1 history2	Oil Age	mls	Client Info		0		
CONTAMINATION method limit/base current history1 history3	Oil Changed		Client Info		N/A		
Water	Sample Status				ATTENTION		
Water WC Method So.2 NEG So.2 NEG So.2 NEG So.3 Ne	CONTAMINAT	TON	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 13	Nater		WC Method	>0.2	NEG		
Chromium	Glycol		WC Method		NEG		
ASTM D5185m >20	WEAR METAL	_S	method	limit/base	current	history1	history2
Strickel	ron	ppm	ASTM D5185m	>100	13		
Description	Chromium	ppm	ASTM D5185m	>20	<1		
Silver	Nickel	ppm	ASTM D5185m	>4	0		
Aluminum	Γitanium	ppm	ASTM D5185m		0		
December December	Silver	ppm	ASTM D5185m	>3	0		
Copper	Aluminum	ppm	ASTM D5185m	>20	2		
Tim	_ead	ppm	ASTM D5185m	>40	0		
Vanadium ppm ASTM D5185m <1 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 Boron ppm ASTM D5185m 2 0 Barium ppm ASTM D5185m 0 0 Wolybdenum ppm ASTM D5185m 50 68 Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 950 433 Phosphorus ppm ASTM D5185m 995 1143 Phosphorus ppm ASTM D5185m 2600 3537 Sulfur ppm ASTM D5185m 2600 3537 CONTAMINANTS method limit/base current history1 histo	Copper	ppm	ASTM D5185m	>330	1		
ADDITIVES	Γin	ppm	ASTM D5185m	>15	0		
ADDITIVES	√anadium	ppm	ASTM D5185m		<1		
Soron ppm ASTM D5185m 2 0 0	Cadmium	ppm	ASTM D5185m		0		
Sarium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 50 68 Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 950 433 Calcium ppm ASTM D5185m 1050 1817 Phosphorus ppm ASTM D5185m 995 1143 Zinc ppm ASTM D5185m 2600 3537 Sulfur ppm ASTM D5185m 2600 3537 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	Boron	ppm	ASTM D5185m	2	0		
Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 950 433 Calcium ppm ASTM D5185m 1050 1817 Phosphorus ppm ASTM D5185m 995 1143 Zinc ppm ASTM D5185m 1180 1342 Sulfur ppm ASTM D5185m 2600 3537 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 Soot % % *ASTM D7844 >3 0.7 Silicon Abs/:mm *ASTM D7624	Barium	ppm	ASTM D5185m	0	0		
Magnesium ppm ASTM D5185m 950 433 Calcium ppm ASTM D5185m 1050 1817 Phosphorus ppm ASTM D5185m 995 1143 Zinc ppm ASTM D5185m 1180 1342 Sulfur ppm ASTM D5185m 2600 3537 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 Soot % % *ASTM D7844 >3 0.7 Soot % % *ASTM D7624 >20 9.4 Sulfation Abs/:mm *ASTM D7415	Molybdenum	ppm	ASTM D5185m	50	68		
Description	Manganese	ppm	ASTM D5185m	0	0		
Phosphorus ppm ASTM D5185m 995 1143 Zinc ppm ASTM D5185m 1180 1342 Sulfur ppm ASTM D5185m 2600 3537 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 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.7 Nitration Abs/cm *ASTM D7415 >30 20.6 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D74	Magnesium	ppm	ASTM D5185m	950	433		
The color of the	Calcium	ppm	ASTM D5185m	1050	1817		
Sulfur ppm ASTM D5185m 2600 3537 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 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.7 Sulfation Abs/m *ASTM D7624 >20 9.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9	Phosphorus	ppm	ASTM D5185m	995	1143		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Bodium ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.7 Sulfration Abs/cm *ASTM D7624 >20 9.4 Sulfation Abs/.1mm *ASTM D7415 >30 20.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9	Zinc	ppm	ASTM D5185m	1180	1342		
Solition ppm ASTM D5185m >25 4	Sulfur	ppm	ASTM D5185m	2600	3537		
Sodium ppm ASTM D5185m <1 Potassium ppm ASTM D5185m >20 3 INFRA-RED method limit/base current history1 history2 Soot %	CONTAMINAN	NTS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.7 Nitration Abs/cm *ASTM D7624 >20 9.4 Sulfation Abs/.1mm *ASTM D7415 >30 20.6 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 16.9	Silicon	ppm		>25	4		
INFRA-RED		ppm	ASTM D5185m		<1		
Soot %	Potassium	ppm	ASTM D5185m	>20	3		
Nitration Abs/cm *ASTM D7624 >20 9.4 Sulfation Abs/.1mm *ASTM D7415 >30 20.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 20.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9	Soot %	%	*ASTM D7844	>3	0.7		
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.9	Nitration	Abs/cm	*ASTM D7624	>20	9.4		
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6		
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 7.4	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9		
	Base Number (BN)	mg KOH/g	ASTM D2896		7.4		



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

Unique Number

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

: 10843243 Test Package : MOB 1 (Additional Tests: TBN)

: PCA0115257 : 06066566

Recieved : 22 Jan 2024 Diagnosed : 23 Jan 2024 Diagnostician : Don Baldridge

Certificate L2367 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)

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