

OIL ANALYSIS REPORT



Machine Id **207**

Component **Diesel Engine** Fluid

PETRO CANADA DURON UHP E6 10W40 (--- GAL

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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 acceptable for the time in service.

SAMPLE INFORMATION method limit/base current history1 history1 Sample Number Client Info PC0032519 .	- GAL)				Aug2023		
Cample Number Client Info PC0032519 Client Info 13 Aug 2023 Client Info 49732 Client Info 49732 Client Info 49732 Client Info 49732 Changed Client Info Changed Changed Client Info Changed Change	SAMPLE INFOR	MATION	method			history1	history2
Sample Date Client Info 49732					PC0032519		
Machine Age mls			Client Info		13 Aug 2023		
Dit Age		mls	Client Info		_		
Contample Client Info Changed Normal Contample Status Cont		mls	Client Info		8489		
CONTAMINATION			Client Info		Changed		
We We We We We We Neg We Mes Mes We Mes Mes We Mes We	-						
WEAR METALS method limit/base current history1 history	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS method limit/base current history1 hi ron ppm ASTM D5185m >100 17 Chromium ppm ASTM D5185m >20 0 Silver ppm ASTM D5185m >4 0 ASTM D5185m >3 0 ASTM D5185m >20 9 ALUminum ppm ASTM D5185m >40 0 ALuminum ppm ASTM D5185m >40 0 ALuminum ppm ASTM D5185m 0 2	-uel		WC Method	>5	<1.0		
Chromium	Glycol		WC Method		NEG		
Description	WEAR METAL	S	method	limit/base	current	history1	history2
Strain S	ron	ppm	ASTM D5185m	>100	17		
STATE STAT	Chromium	ppm	ASTM D5185m	>20	0		
Silver	Nickel	ppm	ASTM D5185m	>4	0		
Addition	- itanium	ppm	ASTM D5185m		<1		
Aluminum	Silver	ppm	ASTM D5185m	>3	0		
ASTM D5185m S330 C1 C1 C2 C3	Aluminum	ppm	ASTM D5185m	>20	9		
ASTM D5185m D5185	_ead	ppm	ASTM D5185m	>40	0		
Aranadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 2 Boron ppm ASTM D5185m 0 0 Boron ppm ASTM D5185m 0 0 Boron ppm ASTM D5185m 0 0 Alanganese ppm ASTM D5185m 0 965 Alanganesium ppm ASTM D5185m 2400 1074 Pohosphorus ppm ASTM D5185m 2400 1074 Pohosphorus ppm ASTM D5185m 2130 3560 Bulfur ppm ASTM D5185m 225 4	Copper	ppm	ASTM D5185m	>330	<1		
Anandium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 hi Boron ppm ASTM D5185m 0 2 Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 0 55 Magnesium ppm ASTM D5185m 0 <1 Adagnesium ppm ASTM D5185m 2400 1074 Phosphorus ppm ASTM D5185m 2400 1074 Phosphorus ppm ASTM D5185m 240 1261 Cinc ppm ASTM D5185m 2130 3560 Contassium ppm ASTM D5185m 22 4 -	-in	ppm	ASTM D5185m	>15	<1		
ADDITIVES	/anadium	ppm	ASTM D5185m		0		
Soron ppm ASTM D5185m 0 2	Cadmium	ppm	ASTM D5185m		0		
Description	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 55 Manganese ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m	0	2		
Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 80 965 Calcium ppm ASTM D5185m 2400 1074 Phosphorus ppm ASTM D5185m 750 981 Zinc ppm ASTM D5185m 840 1261 Sulfur ppm ASTM D5185m 2130 3560 CONTAMINANTS method limit/base current history1 hi Silicon ppm ASTM D5185m >25 4 Potassium ppm ASTM D5185m >20 15 Potassium ppm ASTM D5185m >20 15 Potassium ppm ASTM D5185m >20 15 Silicon ppm ASTM D5185m	Barium	ppm	ASTM D5185m	0	0		
Magnesium ppm ASTM D5185m 80 965 Calcium ppm ASTM D5185m 2400 1074 Phosphorus ppm ASTM D5185m 750 981 Zinc ppm ASTM D5185m 840 1261 Sulfur ppm ASTM D5185m 2130 3560 CONTAMINANTS method limit/base current history1 hi Silicon ppm ASTM D5185m >25 4 Potassium ppm ASTM D5185m >20 15 Potassium ppm ASTM D5185m >20 15 INFRA-RED method limit/base current history1 hi Soot % *ASTM D7624 >20 8.7 Sulfation Abs/:nm *ASTM D7415 >30	Molybdenum	ppm	ASTM D5185m	0	55		
Calcium ppm ASTM D5185m 2400 1074 Phosphorus ppm ASTM D5185m 750 981 Zinc ppm ASTM D5185m 840 1261 Sulfur ppm ASTM D5185m 2130 3560 CONTAMINANTS method limit/base current history1 history1 history1 history1 history1 history2	Manganese	ppm	ASTM D5185m	0	<1		
Phosphorus ppm ASTM D5185m 750 981 Zinc ppm ASTM D5185m 840 1261 Sulfur ppm ASTM D5185m 2130 3560 CONTAMINANTS method limit/base current history1 hi Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 15 INFRA-RED method limit/base current history1 hi Soot % % *ASTM D7844 >3 0.3 Siltration Abs/cm *ASTM D7415 >30 19.0 FLUID DEGRADATION method limit/base current history1 hit Dxidation Abs/.1mm *ASTM D7414 >25 <	Magnesium	ppm	ASTM D5185m	80	965		
Soulfur ppm ASTM D5185m 840 1261 Sulfur ppm ASTM D5185m 2130 3560 Sulfur ppm ASTM D5185m 2130 3560 Sulfucon ppm ASTM D5185m >25 4 Sulfucon ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 15 Sulfucon ASTM D5185m >20 15 Sulfucon Abs/cm *ASTM D7844 >3 0.3 Sulfucon Abs/cm *ASTM D7624 >20 8.7 Sulfucon Abs/.1mm *ASTM D7415 >30 19.0 FLUID DEGRADATION method limit/base current history1	Calcium	ppm	ASTM D5185m	2400	1074		
Sulfur ppm ASTM D5185m 2130 3560 CONTAMINANTS method limit/base current history1 hi Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 15 INFRA-RED method limit/base current history1 hi Soot % % *ASTM D7844 >3 0.3 Sulfration Abs/cm *ASTM D7624 >20 8.7 FLUID DEGRADATION method limit/base current history1 hi Dxidation Abs/.1mm *ASTM D7414 >25 15.7	Phosphorus	ppm	ASTM D5185m	750	981		
CONTAMINANTS method limit/base current history1 hi Silicon ppm ASTM D5185m >25 4 Bodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 15 INFRA-RED method limit/base current history1 hi Boot % % *ASTM D7844 >3 0.3 Sultration Abs/cm *ASTM D7624 >20 8.7 Sulfation Abs/.1mm *ASTM D7415 >30 19.0 FLUID DEGRADATION method limit/base current history1 hi Dxidation Abs/.1mm *ASTM D7414 >25 15.7	Zinc	ppm	ASTM D5185m	840	1261		
Solition ppm ASTM D5185m >25 4	Sulfur	ppm	ASTM D5185m	2130	3560		
Sodium ppm ASTM D5185m 2 Potassium ppm ASTM D5185m >20 15 INFRA-RED method limit/base current history1 hi Soot % *ASTM D7844 >3 0.3 Vitration Abs/cm *ASTM D7624 >20 8.7 Sulfation Abs/.1mm *ASTM D7415 >30 19.0 FLUID DEGRADATION method limit/base current history1 history1 history1 history1 Dividation Abs/.1mm *ASTM D7414 >25 15.7	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 15 INFRA-RED method limit/base current history1 hi Soot % % *ASTM D7844 >3 0.3 Nitration Abs/cm *ASTM D7624 >20 8.7 Sulfation Abs/.1mm *ASTM D7415 >30 19.0 FLUID DEGRADATION method limit/base current history1 hi Dxidation Abs/.1mm *ASTM D7414 >25 15.7	Silicon	ppm	ASTM D5185m	>25	4		
INFRA-RED	Sodium	ppm	ASTM D5185m		2		
Soot %	Potassium	ppm	ASTM D5185m	>20	15		
Nitration Abs/cm *ASTM D7624 >20 8.7 Sulfation Abs/.1mm *ASTM D7415 >30 19.0 FLUID DEGRADATION method limit/base current history1 hi Dxidation Abs/.1mm *ASTM D7414 >25 15.7	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 19.0 FLUID DEGRADATION method limit/base current history1 hi Dxidation Abs/.1mm *ASTM D7414 >25 15.7	Soot %	%	*ASTM D7844	>3	0.3		
FLUID DEGRADATION method limit/base current history1 hi Dxidation Abs/.1mm *ASTM D7414 >25 15.7	Nitration	Abs/cm	*ASTM D7624	>20	8.7		
Oxidation Abs/.1mm *ASTM D7414 >25 15.7	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0		
	FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7		
Base Number (BN) mg KOH/g ASTM D2896 9.5 7.9	Base Number (BN)	mg KOH/a	ASTM D2896	9.5	7.9		



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: PC0032519

: 05924055 : 10604002

Received Diagnosed

: 15 Aug 2023 Diagnostician : Sean Felton

: 14 Aug 2023

Test Package : MOB 1 (Additional Tests: KV40, TBN) 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) Iroquois Bar Corp.

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