

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id 199

Component **Diesel Engine**

PETRO CANADA DURON UHP E6 10W40 (

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

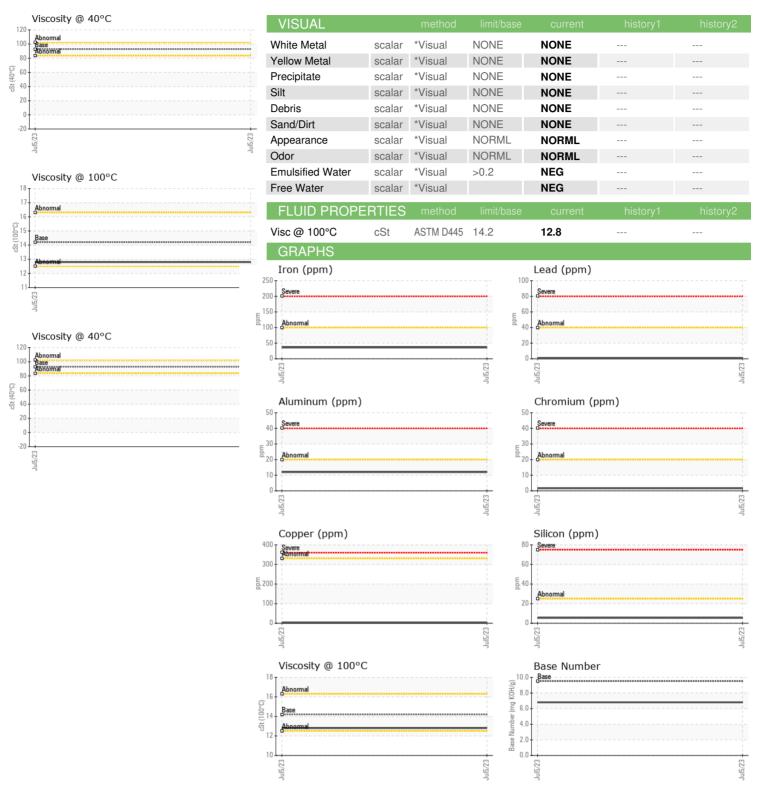
Fluid Condition

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 imit/base current history1 history2	GAL)						
Sample Number Client Info PC0032536	GAL)				Jul2023		
Company Comp	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Machine Age mls Client Info 120292	Sample Number		Client Info		PC0032536		
Dil Age	Sample Date		Client Info		05 Jul 2023		
Contamped Client Info Changed NoRMAL Contamped NoRMAL Contamped Contamped	Machine Age	mls	Client Info		120292		
CONTAMINATION method limit/base current history1 history2	Oil Age	mls	Client Info		8021		
CONTAMINATION method limit/base current history1 history2	Oil Changed		Client Info		Changed		
Fuel	Sample Status				NORMAL		
WEAR METALS	CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 36	Fuel		WC Method	>5	<1.0		
Chromium	Glycol		WC Method		NEG		
ASTM D5185m Part	WEAR METAL	S	method	limit/base	current	history1	history2
Strickel	ron	ppm	ASTM D5185m	>100	36		
ASTM D5185m STM D5185m ST	Chromium	ppm	ASTM D5185m	>20	2		
Ast Ast	Nickel	ppm	ASTM D5185m	>4	0		
Salver	Γitanium	ppm	ASTM D5185m		<1		
December December	Silver	ppm	ASTM D5185m	>3	0		
Copper	Aluminum	ppm	ASTM D5185m	>20	12		
Time	_ead	ppm	ASTM D5185m	>40	<1		
Anadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 5 Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 0 63 Magnesium ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 2400 1270 Phosphorus ppm ASTM D5185m 2400 1270 Phosphorus ppm ASTM D5185m 2400 1307 Sulfur ppm ASTM D5185m 2130 3722 CONTAMINANTS method limit/base current hist	Copper	ppm	ASTM D5185m	>330	2		
Anadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 5 Barium ppm ASTM D5185m 0 63 Molybdenum ppm ASTM D5185m 0 63 Magnesium ppm ASTM D5185m 0 <1 Alagnesium ppm ASTM D5185m 80 979 Phosphorus ppm ASTM D5185m 2400 1270 Phosphorus ppm ASTM D5185m 840 1307 Cinc ppm ASTM D5185m >2130 3722 CONTAMINANTS method limit/base current history		ppm	ASTM D5185m	>15	1		
ADDITIVES	/anadium		ASTM D5185m		0		
Soron ppm ASTM D5185m 0 0 0 0 0 0 0 0	Cadmium	ppm	ASTM D5185m		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 63 Manganese ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m	0	5		
Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 80 979 Calcium ppm ASTM D5185m 2400 1270 Phosphorus ppm ASTM D5185m 750 1017 Zinc ppm ASTM D5185m 840 1307 Sulfur ppm ASTM D5185m 2130 3722 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >25 6 Solicon ppm ASTM D5185m >20 4 Potassium ppm ASTM D5185m >20 4 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844	Barium	ppm	ASTM D5185m	0	0		
Magnesium ppm ASTM D5185m 80 979 Calcium ppm ASTM D5185m 2400 1270 Phosphorus ppm ASTM D5185m 750 1017 Zinc ppm ASTM D5185m 840 1307 Sulfur ppm ASTM D5185m 2130 3722 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m >20 4 Potassium ppm ASTM D5185m >20 4 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 12.6 Sulfation Abs/.1mm *ASTM D7414	Molybdenum	ppm	ASTM D5185m	0	63		
Description	Manganese	ppm	ASTM D5185m	0	<1		
Phosphorus ppm ASTM D5185m 750 1017 Zinc ppm ASTM D5185m 840 1307 Sulfur ppm ASTM D5185m 2130 3722 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 Godium ppm ASTM D5185m 4 Potassium ppm ASTM D5185m >20 4 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.2 Soot % % *ASTM D7624 >20 12.6 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 FLUID DEGRADATION *ASTM D7414 >25 20.4	Magnesium	ppm	ASTM D5185m	80	979		
Zinc ppm ASTM D5185m 840 1307 Sulfur ppm ASTM D5185m 2130 3722 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m 4 Potassium ppm ASTM D5185m >20 4 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7844 >3 1.2 Nitration Abs/cm *ASTM D7624 >20 12.6 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 20.4	Calcium	ppm	ASTM D5185m	2400	1270		
Sulfur ppm ASTM D5185m 2130 3722 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m 4 Potassium ppm ASTM D5185m >20 4 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.2 Solfation Abs/.1mm *ASTM D7624 >20 12.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 20.4	Phosphorus	ppm	ASTM D5185m	750	1017		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m 4 Potassium ppm ASTM D5185m >20 4 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.2 Nitration Abs/cm *ASTM D7624 >20 12.6 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 20.4	Zinc	ppm	ASTM D5185m	840	1307		
Solition ppm ASTM D5185m >25 6	Sulfur	ppm	ASTM D5185m	2130	3722		
Sodium	CONTAMINAN	NTS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 4 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.2 Nitration Abs/cm *ASTM D7624 >20 12.6 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 20.4	Silicon	ppm	ASTM D5185m	>25	6		
INFRA-RED	Sodium	ppm	ASTM D5185m		4		
Soot %	Potassium	ppm	ASTM D5185m	>20	4		
Nitration Abs/cm *ASTM D7624 >20 12.6 Sulfation Abs/.1mm *ASTM D7415 >30 23.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 20.4	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 23.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 20.4	Soot %	%	*ASTM D7844	>3	1.2		
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 20.4	Vitration	Abs/cm	*ASTM D7624	>20	12.6		
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0		
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 9.5 6.8	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4		
	Base Number (BN)	mg KOH/q	ASTM D2896	9.5	6.8		



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

Unique Number

: PC0032536 : 05924056 : 10604003

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

: 14 Aug 2023 : 15 Aug 2023

Diagnostician : Sean Felton

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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Contact: Denver Persinger dpersinger@iroquoisbar.com

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