

# **OIL ANALYSIS REPORT**

# CHICAGO 95TH DOOSAN DV250S-7 355-01 (S/N FDC06-2290-00094)

Component **Diesel Engine** Fluid

PETRO CANADA DURON HP 15W40 (--- GAL)

### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

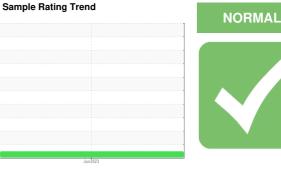
All component wear rates are normal.

#### 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 suitable for further service.





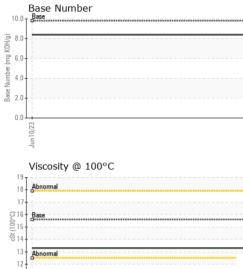
				Jun2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0097250		
Sample Date		Client Info		10 Jun 2023		
Machine Age	hrs	Client Info		5377		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Glycol		WC Method		NEG		
WEAR METALS	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		4		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	<1		
Lead	ppm	ASTM D5185m	>40	3		
Copper	ppm	ASTM D5185m	>30	<1		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		7		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		45		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		768		
Calcium	ppm	ASTM D5185m		1293		
Phosphorus	ppm	ASTM D5185m		987		
Zinc	ppm	ASTM D5185m		1211		
Sulfur	ppm	ASTM D5185m		3702		
CONTAMINAN	ГS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	5.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4		
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	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		
1	Odor	scalar	*Visual	NORML	NORML		
°C	Emulsified Water	scalar	*Visual	>0.1	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPE	RTIES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	15.6	13.3		
	GRAPHS						
	Iron (ppm)				Lead (ppm)		
	120 100 Severe			10	Severe		
	80 -				30 - <b>Gevele</b>		
	a 60 - Abnormal			G.	Abnormal		1
	40			1	20		
	20						
	Jun 10/23			Jun10/23 -	Jun10/23		Jun10/23 -
	Jun1			Jun1	Junt		Jun1
	Aluminum (ppm)				Chromium (pp	m)	
	<sup>50</sup> 40				Severe		
	E 30 20 Abnormal				Abnormal		
	10				10-		
	0				0		
	Jun 10/23			Jun10/23	Jun 10/23		Jun10/23
	Jun			Junt	lun		Junt
	Copper (ppm)				Silicon (ppm)		
	50 Severe			4	10 T		
				3	30 - Severe		
				Md 2	20 Abnormal		
				1	Abnormal		
	10						
	0/23			0/23 -	0/23		0/23 -
	Jun10/23			Jun10/23	Jun 10/23		Jun10/23
	Viscosity @ 100°C	;			Base Number		
	20 1. Abnormal			10 ( <sup>B</sup> / <sub>7</sub>	T		
				(D/HO) Base Number (mg KOH/(d) 9 8			
	Control 16 Base			per j			
	Abhormai			Mun 4	.0+		
	12				.0		
	Jun 10/23			Jun10/23	Jun10/23		Jun10/23 -
	lnul			Jun1	Jun1		Junl
Laboratory Sample No. Lab Number Unique Number Test Package To discuss this sample report	: 05936954 I er : 10622225 I e : MOB 1 (Additional t, contact Customer Servi	Received Diagnose Diagnost Tests: TB ice at 1-8	l : 29 / ed : 29 / ician : We BN ) /00-237-1369	Aug 2023 Aug 2023 s Davis 9.	3 NORTH /	9301 S Contact: PA	EVEDORING CO KREITER AVE CHICAGO, IL US 60617 CO MARTINEZ tinez@qsl.com
* - Denotes test methods that					(ICOM 100-0010)		T: F:
* - Denotes test methods that Statements of conformity to spe					(JCGM 106:2012)		