

OIL ANALYSIS REPORT







CATERPILLAR D6T RCW01442

Component **Diesel Engine**

PETRO CANADA DUF

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

ON HP 15W40 (-	GALV					
`		L		Jan2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0100306		
Sample Date		Client Info		10 Jan 2024		
Machine Age	hrs	Client Info		13277		
Oil Age	hrs	Client Info		500		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	38		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	. –	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	10		
Lead	ppm	ASTM D5185m	>40	2		
Copper	ppm	ASTM D5185m		3		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		57		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		43		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		206		
Calcium	ppm	ASTM D5185m		956		
Phosphorus	ppm	ASTM D5185m		602		
Zinc	ppm	ASTM D5185m		689		
Sulfur	ppm	ASTM D5185m		1965		
CONTAMINAL	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	<1		
Fuel	%	ASTM D3524	>5	35.7		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2		
Nitration	Abs/cm	*ASTM D7624	>20	9.8		

20.8

15.4

6.8

Abs/.1mm *ASTM D7415 >30

Abs/.1mm *ASTM D7414 >25

FLUID DEGRADATION method

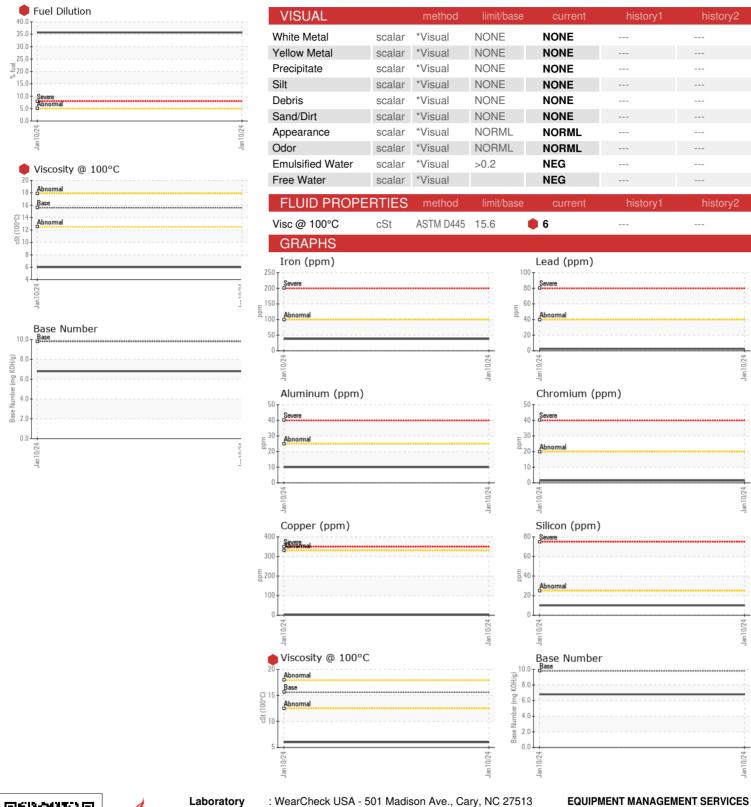
Base Number (BN) mg KOH/g ASTM D2896 9.8

Sulfation

Oxidation



OIL ANALYSIS REPORT







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

: PCA0100306 : 06077990

: 10860081

Recieved Diagnosed

: 05 Feb 2024 Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

: 02 Feb 2024

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)

11042 WICKER AVE CEDAR LAKE, IN US 46303

Contact: TIM tim@equipmanagement.com

T: (219)670-7876

Contact/Location: TIM ? - EQUCED