

# **OIL ANALYSIS REPORT**

Sample Rating Trend

FUEL

#### Machine Id

# **THOMAS 624**

Component Diesel Engine Fluid PETRO CANADA DURON HP 15W40 (--- GAL)

### DIAGNOSIS

#### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

# Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring.

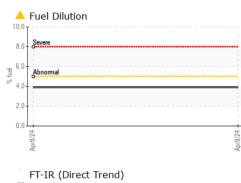
# Fluid Condition

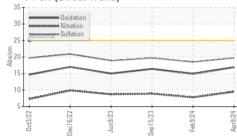
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

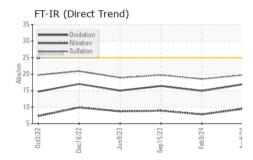
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0906008	WC0792698	WC0792653
Sample Date		Client Info		09 Apr 2024	09 Feb 2024	15 Sep 2023
Machine Age	mls	Client Info		69573	66358	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	24	17	35
Chromium	ppm	ASTM D5185m	>20	1	2	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	9	5	13
Lead	ppm	ASTM D5185m	>40	1	<1	0
Copper	ppm	ASTM D5185m	>330	2	2	<1
Tin	ppm	ASTM D5185m	>15	1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	6	7
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		58	58	62
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		860	876	877
Calcium	ppm	ASTM D5185m		1070	1023	1136
Phosphorus	ppm	ASTM D5185m		938	971	944
Zinc	ppm	ASTM D5185m		1097	1120	1219
Sulfur	ppm	ASTM D5185m		3072	3383	3471
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	6
Sodium	ppm	ASTM D5185m		3	0	2
Potassium	ppm	ASTM D5185m	>20	13	9	26
Fuel	%	ASTM D3524	>5	<b>A</b> 3.9	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.5	7.8	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	18.5	19.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	14.9	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.2	8.1	7.1
	9					

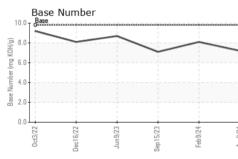


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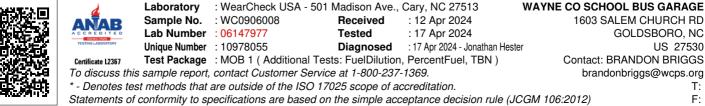








		method	limit/base	current	history1	history
Vhite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
and/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
ppearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
mulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
ree Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	ERTIES	method	limit/base	current	history1	history
/isc @ 100°C	cSt	ASTM D445	15.6	<b>12.2</b>	12.6	12.7
GRAPHS						
Iron (ppm)			10	Lead (ppm)		
Severe			8	Severe		
			C			
Abnormal			а 4	Abaramal		
			2			
0ct3/22 Dec16/22	Jun9/23	Feb 9/24	Apr9/24	0ct3/22 Dec16/22	Jun9/23 Sep15/23	Feb9/24
	0	Fe B	A		60	Ë
Aluminum (pp	m)		51	Chromium (p	pm)	
Severe		1	4	Severe		1
			2			
Abnormal			۳. ط 2	Abnormal		
	-		1	D		
0ct3/22 Dec16/22	Jun9/23	Feb 9/24	Apr9/24	0ct3/22 Dec16/22	Jun9/23 Sep15/23	Feb9/24
		j L	A	ā	Sej	Ľ.
Copper (ppm) Severe			8	Silicon (ppm)		
Approximate			6			   
			E 4	0		
				Abnormal		1
			2			
/22	123	/24	/24	22	123+	/24+
0ct3/22 Dec16/22	Jun9/23	Feb9/24 -	Apr9/24	0ct3/22 Dec16/22	Jun9/23 - Sep15/23 -	Feb9/24 -
Viscosity @ 10		-		Base Number		
Abnormal			10. F			
			HOX B		$\sim$	
Base			.6. ا بود			
Abnormal			(0)/HOX 6. 9 HOX Per 4. 888 888 889			
· · · · · · · · · · · · · · · · · · ·	Jun9/23 -	Feb 9/24 -	Apr9/24	0ct3/22	Jun9/23 + Sep15/23 +	Feb9/24 -
0ct3/22 +	6		12		22 LD	~



Contact/Location: BRANDON BRIGGS - WAYGOL

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