

# **OIL ANALYSIS REPORT**



# Area [69492] WOLVO 4406

PETRO CANADA DURON SAE 10W30 (--- GAL)

## DIAGNOSIS

#### Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### A Wear

Iron ppm levels are severe. Cylinder, crank, or cam shaft wear is indicated.

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

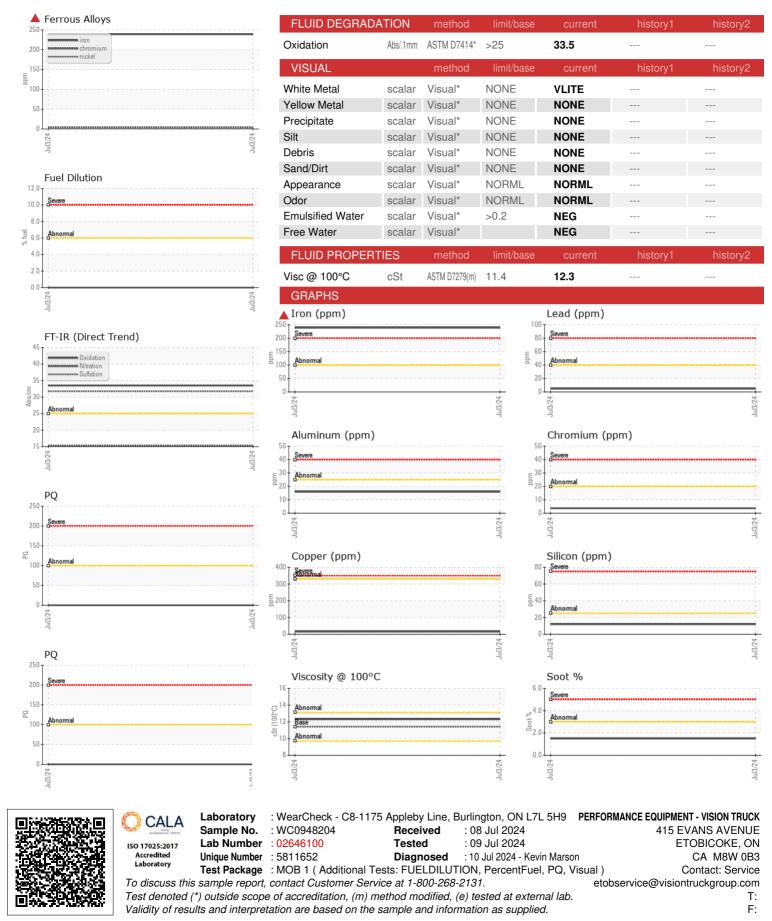
### Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

	mothod	limit/baco	ourropt	history1	history2
ATION		IIIIII/Dase			
KMS			-		
	Client Into				
			SEVERE		
١	method	limit/base	current	history1	history2
	WC Method	>0.2	NEG		
	WC Method		NEG		
	method	limit/base	current	history1	history2
	ASTM D8184*		0		
ppm	ASTM D5185(m)	>100	<b>4</b> 239		
ppm	ASTM D5185(m)	>20	4		
ppm	ASTM D5185(m)	>2	1		
ppm	ASTM D5185(m)		<1		
ppm	ASTM D5185(m)	>2	<1		
ppm	ASTM D5185(m)	>25	16		
ppm	ASTM D5185(m)	>40	5		
ppm	ASTM D5185(m)	>330	16		
ppm	ASTM D5185(m)	>15	2		
ppm	ASTM D5185(m)		0		
ppm	ASTM D5185(m)		0		
ppm	ASTM D5185(m)		0		
ppm	ASTM D5185(m)		0		
	method	limit/base	current	history1	history2
ppm	ASTM D5185(m)	1	9		
		1	<1		
ppm	ASTM D5185(m)	1	<1		
ppm ppm	ASTM D5185(m) ASTM D5185(m)	1	54		
	( /				
ppm	ASTM D5185(m)	1	54		
ppm ppm	ASTM D5185(m) ASTM D5185(m)	1	54 3		
ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 1 10	54 3 784		
ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 1 10 2942	54 3 784 1226		
ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 10 2942 1102	54 3 784 1226 908		
ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 10 2942 1102 1351	54 3 784 1226 908 1166		
ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 10 2942 1102 1351	54 3 784 1226 908 1166 1984	   	   
ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 10 2942 1102 1351 3903	54 3 784 1226 908 1166 1984 <1		
ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 1 10 2942 1102 1351 3903 imit/base	54 3 784 1226 908 1166 1984 <1 <1	     history1	     history2
ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 1 10 2942 1102 1351 3903 imit/base	54 3 784 1226 908 1166 1984 <1 <1 current 12	    history1	     history2
ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 10 2942 1102 1351 3903 imit/base >25	54 3 784 1226 908 1166 1984 <1 current 12 7	     history1	     history2
ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1 1 2942 1102 1351 3903 <b>limit/base</b> >25 >20	54 3 784 1226 908 1166 1984 <1 current 12 7 23	     history1	     history2
ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	1 10 2942 1102 1351 3903 <b>limit/base</b> >25 >20 >20	54 3 784 1226 908 1166 1984 <1 <b>current</b> 12 7 23 0.0 <b>current</b>	     history1  	     history2
ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	1 1 10 2942 1102 1351 3903 <b>limit/base</b> >25 >20 >6.0 <b>limit/base</b>	54 3 784 1226 908 1166 1984 <1 current 12 7 23 0.0	     history1    i history1	     history2     i history2
	ppm	Client Info     Client Info     kms   Client Info     kms   Client Info     kms   Client Info     kms   Client Info     Client Info   Client Info     kms   WC Method     WC Method   WC Method     kms   ASTM D8184*     ppm   ASTM D5185(m)     ppm	Client Info     Client Info     Kms   Client Info     kms   Client Info     Client Info   Imit/base     Client Info   Imit/base     Client Info   Imit/base     VC Method   >0.2     WC Method   Imit/base     WC Method   Stimut/base     ASTM D8184*   Imit/base     ppm   ASTM D5185(m)   >100     ppm   ASTM D5185(m)   >20     ppm   ASTM D5185(m)   >300     ppm   ASTM D5185(m)   >15     ppm   ASTM D5185(m)   >15     ppm   ASTM D5185(m)   >16	Client InfoWC0948204Client Info03 Jul 2024kmsClient Info735310kmsClient Info0Client InfoChangedClient InfoChangedClient InfoChangedClient InfoChangedWC Method>0.2NEGWC Method>0.2NEGWC MethodImit/basecurrentWC Method>100239ppmASTM D5185(m)>204ppmASTM D5185(m)>221ppmASTM D5185(m)>221ppmASTM D5185(m)>216ppmASTM D5185(m)>2516ppmASTM D5185(m)>33016ppmASTM D5185(m)>152ppmASTM D5185(m)>152ppmASTM D5185(m)>152ppmASTM D5185(m)>150ppmASTM D5185(m)00ppmASTM D51	Client Info WC0948204    Client Info 03 Jul 2024    kms Client Info 735310    kms Client Info 0    Client Info 0     kms Client Info 0    Client Info Changed    Client Info Changed    Client Info Changed    VC Method >0.2 NEG    WC Method >0.2 NEG    WC Method >0.2 NEG    ppm ASTM D8184" 0    ppm ASTM D8185(m) >100 239    ppm ASTM D5185(m) >20 4    ppm ASTM D5185(m) >20 4    ppm ASTM D5185(m) >2 1    ppm ASTM D5185(m) >2 1    ppm ASTM D5185(m) >330 16    <



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