

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area [69112] WOLVO VNL 4611

Diesel Engine Fluid PETRO CANADA DURON SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for visible metal particles in the oil. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

🔺 Wear

Nickel ppm levels are severe. Light concentration of visible metal present. Exhaust valve wear is indicated.

Contamination

Elevated aluminum (AI) 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. 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.

SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info 14 Jun 2024 10 Jun 2023 Machine Age kms Client Info 14 Jun 2024 10 Jun 2023 Oil Age kms Client Info 0 0 Oil Age kms Client Info 0 0 Oil Changed Client Info 0 0 Sample Status Imit/base current history1 history2 Fuel WC Method >6.0 <1.0 QottArr WEAR Method Imit/base current history1 history2 Fuel WC Method >6.0 <1.0 Client Info Method Imit/base fuer history1 history2 Fuel WC Method >6.0 7 7 Client Info Method	AAL)			Jun2023	Junz024		
Sample Date Image of the state	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Date Image of the state	Sample Number		Client Info		WC0948232	WC0816595	
Machine Age kms Client Info 320009 192247 Oil Age kms Client Info 0 0 Oil Changed Client Info Changed Changed Sample Status o Imit/base current NoRMAL Yele WC Method >6.0 <1.0 Water 0 WC Method >0.2 NEG NEG WeAR METALS method Imit/base current history1 history2 Iron ppm ASTM DSISS(m) >20 1 1 Nickel ppm ASTM DSISS(m) >2 4 7 2 Laad ppm ASTM DSISS(m) >2 7 7 Laad ppm ASTM DSISS(m) >2 7 7 Land ppm ASTM DSISS(m) >2 3			Client Info		14 Jun 2024	10 Jun 2023	
Oil Age kms Client Info 0 0		kms					
Oil Changed Client Info Changed Fuel NORMAL	Ū						
Sample Status Initial SEVERE NORMAL	-					Changed	
Fuel WC Method >6.0 <1.0	-				-		
Water WC Method >0.2 NEG NEG Glycol WC Method NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05(85(m) >100 72 75 Chromium ppm ASTM 05(85(m) >20 1 1 Nickel ppm ASTM 05(85(m) >2 7 2 Aluminum ppm ASTM 05(85(m) >2 7 7 Lead ppm ASTM 05(85(m) >40 2 3 Aluminum ppm ASTM 05(85(m) >15 2 3 Antimony ppm ASTM 05(85(m) >15 2 3 Antimony ppm ASTM 05(85(m) 16 0 Vaaduum pm ASTM 05(85(m) 0 0 Cadmium	CONTAMINATION		method	limit/base	current	history1	history2
Glycol WC Method NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >100 72 75 Chromium ppm ASTM D5185(m) >20 1 1 Nickel ppm ASTM D5185(m) >2 4 7 2 Silver ppm ASTM D5185(m) >2 <1 Lead ppm ASTM D5185(m) >2 7 7 Lead ppm ASTM D5185(m) >40 2 3 Lead ppm ASTM D5185(m) >15 2 3 Vanadium ppm ASTM D5185(m) 0 0 Beryllium ppm ASTM D5185(m) 1 4 33 Cadmium ppm ASTM	Fuel		WC Method	>6.0	<1.0	<1.0	
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05(8(m) >100 72 75 Chromium ppm ASTM 05(8(m) >20 1 1 Nickel ppm ASTM 05(8(m) >2 ▲ 7 2 Titanium ppm ASTM 05(8(m) >2 1 Silver ppm ASTM 05(8(m) >2 1 Aluminum ppm ASTM 05(8(m) >2 1 Copper ppm ASTM 05(8(m) >15 2 3 Vanadium ppm ASTM 05(8(m) 0 0 Vanadium ppm ASTM 05(8(m) 0 0 Cadmium ppm ASTM 05(8(m) 0 0 Cadmium ppm AS	Water		WC Method	>0.2	NEG	NEG	
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Nickel ppm ASTM D5185(m) >2 Λ 7 2 Titanium ppm ASTM D5185(m) >2 <1 <1 Silver ppm ASTM D5185(m) >2 <1 <1 Aluminum ppm ASTM D5185(m) >25 7 7 Lead ppm ASTM D5185(m) >40 2 3 Copper ppm ASTM D5185(m) >30 28 43 Antimony ppm ASTM D5185(m) >15 2 3 Vanadium ppm ASTM D5185(m) 0 <1 Vanadium ppm ASTM D5185(m) 0 0 Cadmium ppm ASTM D5185(m) 1 4 33 Boron ppm ASTM D5185(m) 1 <1 0 Molybdenum ppm ASTM D5185(m) 1 58	Iron	ppm	ASTM D5185(m)	>100	72	75	
Titanium ppm ASTM D5185(m) 0 <1	Chromium	ppm	ASTM D5185(m)	>20	1	1	
Silver ppm ASTM D5185(m) >2 <1	Nickel	ppm	ASTM D5185(m)	>2	A 7	2	
Aluminum ppm ASTM D5185(m) >25 7 7 Lead ppm ASTM D5185(m) >40 2 3 Copper ppm ASTM D5185(m) >330 28 43 Tin ppm ASTM D5185(m) >15 2 3 Antimony ppm ASTM D5185(m) 0 <1 Vanadium ppm ASTM D5185(m) 0 0 Beryllium ppm ASTM D5185(m) 0 0 ADDITIVES method imit/base current history1 history2 Boron ppm ASTM D5185(m) 1 4 33 Molybdenum ppm ASTM D5185(m) 1 58 53 Magnaese ppm ASTM D5185(m) 10 840 718 Magnaesium ppm ASTM D5185(m) 10840 718	Titanium	ppm	ASTM D5185(m)		0	<1	
Lead ppm ASTM D5185(m) >40 2 3 Copper ppm ASTM D5185(m) >330 28 43 Tin ppm ASTM D5185(m) >15 2 3 Antimony ppm ASTM D5185(m) 0 <1 Vanadium ppm ASTM D5185(m) 0 0 Beryllium ppm ASTM D5185(m) 0 0 Cadmium ppm ASTM D5185(m) 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 1 4 33 Molybdenum ppm ASTM D5185(m) 1 58 53 Magnaese ppm ASTM D5185(m) 10 840 718 Magnaesium ppm ASTM D5185(m) 1351 1121 914	Silver	ppm	ASTM D5185(m)	>2	<1	<1	
Copper ppm ASTM D5185(m) >330 28 43 Tin ppm ASTM D5185(m) >15 2 3 Antimony ppm ASTM D5185(m) 0 <1 Vanadium ppm ASTM D5185(m) 0 0 Beryllium ppm ASTM D5185(m) 0 0 Cadmium ppm ASTM D5185(m) 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 1 4 33 Molybdenum ppm ASTM D5185(m) 1 2 3 Magnese ppm ASTM D5185(m) 1 2 3 Magnesium ppm ASTM D5185(m) 10 840 718 Calcium ppm ASTM D5185(m) 1012 855 932	Aluminum	ppm	ASTM D5185(m)	>25	7	7	
Tin ppm ASTM D5185(m) >15 2 3 Antimony ppm ASTM D5185(m) 0 <11	Lead	ppm	ASTM D5185(m)	>40	2	3	
Antimony ppm ASTM D5185(m) 0 <1	Copper	ppm	ASTM D5185(m)	>330	28	43	
Vanadium ppm ASTM D5185(m) 0 0 Beryllium ppm ASTM D5185(m) 0 0 Cadmium ppm ASTM D5185(m) 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 1 4 33 Barium ppm ASTM D5185(m) 1 4 33 Molybdenum ppm ASTM D5185(m) 1 58 53 Magnesium ppm ASTM D5185(m) 10 840 718 Calcium ppm ASTM D5185(m) 100 840 718 Calcium ppm ASTM D5185(m) 1102 855 932 Sulfur ppm ASTM D5185(m) 3903 2015 4397 Sulfur ppm ASTM D5185(m) >25 8 12 </th <th>Tin</th> <th>ppm</th> <th>ASTM D5185(m)</th> <th>>15</th> <th>2</th> <th>3</th> <th></th>	Tin	ppm	ASTM D5185(m)	>15	2	3	
Beryllium ppm ASTM D5185(m) 0 0 Cadmium ppm ASTM D5185(m) 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 1 4 33 Barium ppm ASTM D5185(m) 1 4 33 Molybdenum ppm ASTM D5185(m) 1 4 33 Manganese ppm ASTM D5185(m) 1 58 53 Magnesium ppm ASTM D5185(m) 10 840 718 Calcium ppm ASTM D5185(m) 2942 1237 1042 Phosphorus ppm ASTM D5185(m) 1351 1121 914 Sulfur ppm ASTM D5185(m) 3903 2015 4397 Lithium ppm ASTM D5185(m) >25	Antimony	ppm	ASTM D5185(m)		0	<1	
Cadmium ppm ASTM D5185(m) 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 1 4 33 Barium ppm ASTM D5185(m) 1 4 33 Molybdenum ppm ASTM D5185(m) 1 58 53 Manganese ppm ASTM D5185(m) 1 2 3 Magnesium ppm ASTM D5185(m) 10 840 718 Calcium ppm ASTM D5185(m) 102 855 932 Zinc ppm ASTM D5185(m) 1351 1121 914 Sulfur ppm ASTM D5185(m) 3903 2015 4397 Lithium ppm ASTM D5185(m) >25 8 12 Sodium ppm ASTM D5185(m) >20 <th>Vanadium</th> <th>ppm</th> <th>ASTM D5185(m)</th> <th></th> <th>0</th> <th>0</th> <th></th>	Vanadium	ppm	ASTM D5185(m)		0	0	
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 1 4 33 Barium ppm ASTM D5185(m) 1 <1 0 Molybdenum ppm ASTM D5185(m) 1 58 53 Magnesse ppm ASTM D5185(m) 1 2 3 Magnesium ppm ASTM D5185(m) 10 840 718 Calcium ppm ASTM D5185(m) 100 840 718 Phosphorus ppm ASTM D5185(m) 2942 1237 1042 Zinc ppm ASTM D5185(m) 1351 1121 914 Sulfur ppm ASTM D5185(m) 3903 2015 4397 Lithium ppm ASTM D5185(m) >25 8 12 Sodium ppm ASTM D5185(m)	Beryllium	ppm	ASTM D5185(m)		0	0	
Boron ppm ASTM D5185(m) 1 4 33 Barium ppm ASTM D5185(m) 1 <1 0 Molybdenum ppm ASTM D5185(m) 1 58 53 Manganese ppm ASTM D5185(m) 1 2 3 Magnesium ppm ASTM D5185(m) 10 840 718 Calcium ppm ASTM D5185(m) 2942 1237 1042 Phosphorus ppm ASTM D5185(m) 1351 1121 914 Sulfur ppm ASTM D5185(m) 3903 2015 4397 Lithium ppm ASTM D5185(m) 3903 2015 4397 Solicon ppm ASTM D5185(m) 3903 2015 4397 Solicon ppm ASTM D5185(m) >25 8 12 Sodium ppm	Cadmium	ppm	ASTM D5185(m)		0	0	
Barium ppm ASTM D5185(m) 1 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185(m) 1 58 53 Manganese ppm ASTM D5185(m) 1 2 3 Magnesium ppm ASTM D5185(m) 10 840 718 Calcium ppm ASTM D5185(m) 2942 1237 1042 Phosphorus ppm ASTM D5185(m) 1102 855 932 Zinc ppm ASTM D5185(m) 1351 1121 914 Sulfur ppm ASTM D5185(m) 3903 2015 4397 Lithium ppm ASTM D5185(m) 3903 2015 4397 Solicon ppm ASTM D5185(m) >25 8 12 Sodium ppm ASTM D5185(m) >20 8 16 INFRA-RED method limit/base current history1 history2 Soot % %	Boron	ppm	ASTM D5185(m)	1	4	33	
Manganese ppm ASTM D5185(m) 1 2 3 Magnesium ppm ASTM D5185(m) 10 840 718 Calcium ppm ASTM D5185(m) 2942 1237 1042 Phosphorus ppm ASTM D5185(m) 1102 855 932 Zinc ppm ASTM D5185(m) 1351 1121 914 Sulfur ppm ASTM D5185(m) 3903 2015 4397 Sulfur ppm ASTM D5185(m) 3903 2015 4397 Lithium ppm ASTM D5185(m) 3903 2015 4397 Soliton ppm ASTM D5185(m) 3903 2015 4397 Silicon ppm ASTM D5185(m) >25 8 12 Sodium ppm ASTM D5185(m) >20 8 16 INFRA-RED <td< th=""><th>Barium</th><th>ppm</th><th>ASTM D5185(m)</th><th>1</th><th><1</th><th>0</th><th></th></td<>	Barium	ppm	ASTM D5185(m)	1	<1	0	
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Calcium ppm ASTM D5185(m) 2942 1237 1042 Phosphorus ppm ASTM D5185(m) 1102 855 932 Zinc ppm ASTM D5185(m) 1351 1121 914 Sulfur ppm ASTM D5185(m) 3903 2015 4397 Lithium ppm ASTM D5185(m) 3903 2015 4397 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >25 8 12 Sodium ppm ASTM D5185(m) >20 8 16 NtRAR-RED method limit/base current history1 history2 Soot % % ASTM D7844* >3 0.9 0.7 Nitration Abs/cm ASTM D7624* >20 12.4 11.3	Manganese	ppm	ASTM D5185(m)	1	2	3	
Phosphorus ppm ASTM D5185(m) 1102 855 932 Zinc ppm ASTM D5185(m) 1351 1121 914 Sulfur ppm ASTM D5185(m) 3903 2015 4397 Lithium ppm ASTM D5185(m) 3903 2015 4397 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >25 8 12 Sodium ppm ASTM D5185(m) >20 8 16 Potassium ppm ASTM D5185(m) >20 8 16 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* >3 0.9 0.7 Nitration Abs/cm ASTM D7624* >20 12.4 11.3	Magnesium	ppm	ASTM D5185(m)	10	840	718	
Zinc ppm ASTM D5185(m) 1351 1121 914 Sulfur ppm ASTM D5185(m) 3903 2015 4397 Lithium ppm ASTM D5185(m) 3903 2015 4397 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >25 8 12 Sodium ppm ASTM D5185(m) >20 8 16 Potassium ppm ASTM D5185(m) >20 8 16 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* >3 0.9 0.7 Nitration Abs/cm ASTM D7624* >20 12.4 11.3	Calcium	ppm	ASTM D5185(m)	2942	1237	1042	
Sulfur ppm ASTM D5185(m) 3903 2015 4397 Lithium ppm ASTM D5185(m) G <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >25 8 12 Sodium ppm ASTM D5185(m) >20 4 4 Potassium ppm ASTM D5185(m) >20 8 16 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* >3 0.9 0.7 Nitration Abs/cm ASTM D7624* >20 12.4 11.3	Phosphorus	ppm	ASTM D5185(m)	1102	855	932	
LithiumppmASTM D5185(m)<1	Zinc	ppm	ASTM D5185(m)	1351	1121	914	
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>25812SodiumppmASTM D5185(m)44PotassiumppmASTM D5185(m)>20816INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%ASTM D7844*>30.90.7NitrationAbs/cmASTM D7624*>2012.411.3	Sulfur	ppm	ASTM D5185(m)	3903	2015	4397	
Silicon ppm ASTM D5185(m) >25 8 12 Sodium ppm ASTM D5185(m) 4 4 Potassium ppm ASTM D5185(m) >20 8 16 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* >3 0.9 0.7 Nitration Abs/cm ASTM D7624* >20 12.4 11.3	Lithium	ppm	ASTM D5185(m)		<1	<1	
Sodium ppm ASTM D5185(m) 4 4 Potassium ppm ASTM D5185(m) >20 8 16 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* >3 0.9 0.7 Nitration Abs/cm ASTM D7624* >20 12.4 11.3	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185(m) >20 8 16 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* >3 0.9 0.7 Nitration Abs/cm ASTM D7624* >20 12.4 11.3	Silicon	ppm	ASTM D5185(m)	>25	8	12	
INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%ASTM D7844*>30.90.7NitrationAbs/cmASTM D7624*>2012.411.3	Sodium	ppm			4		
Soot % % ASTM D7844* >3 0.9 0.7 Nitration Abs/cm ASTM D7624* >20 12.4 11.3	Potassium	ppm	ASTM D5185(m)	>20	8	16	
Nitration Abs/cm ASTM D7624* >20 12.4 11.3	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	ASTM D7844*	>3	0.9	0.7	
Sulfation Abs/.1mm ASTM D7415* >30 24.8 27.9	Nitration	Abs/cm	ASTM D7624*	>20	12.4	11.3	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	24.8	27.9	



OIL ANALYSIS REPORT

	1	FLUID DEGRAD		method	limit/base	5	current	history1	history
Iron Iron Iron Iron Iron Iron Iron Iron		Oxidation	Abs/.1mm	ASTM D7414*	>25		22.1	25.8	
		VISUAL		method	limit/base	e	current	history1	history
		White Metal	scalar	Visual*	NONE		LIGHT	NONE	
		Yellow Metal	scalar	Visual*	NONE		NONE	NONE	
3111		Precipitate	scalar	Visual*	NONE		NONE	NONE	
27/01 unc	Jun14/24	Silt	scalar	Visual*	NONE		NONE	NONE	
5	Jun	Debris	scalar	Visual*	NONE		NONE	NONE	
-T-IR (Direct Trend)		Sand/Dirt	scalar	Visual*	NONE		NONE	NONE	
Oxidation		Appearance	scalar	Visual*	NORML		NORML	NORML	
Nitration Sulfation		Odor	scalar	Visual*	NORML		NORML	NORML	
		Emulsified Water	scalar	Visual*	>0.2		NEG	NEG	
Abnormal		Free Water	scalar	Visual*			NEG	NEG	
		FLUID PROPER		method	limit/base	Ð	current	history1	histor
		Visc @ 100°C	cSt	ASTM D7279(m)	11.4		11.2	10.3	
	Jun14/24	GRAPHS Iron (ppm)					Lead (ppm)		
	7	250				¹⁰⁰ T			
/iscosity @ 100°C		200			-	80-	Severe		
		E 150 - Abnormal			mdd	60 40	Abnormal		
Abnormal		50				20-			
Base					- +	οL	2		
Abnormal		Jun 10/23			Jun 14/24		Jun 10/23		
		⊰ Aluminum (ppm)			ĥ		⊰ Chromium (pp	m)	
		50 T				⁵⁰ T			
Jun 10/23	10.11	40 - Severe			-	40-	Severe		
	1	E ³⁰ Abnormal				30-	Abnormal		
		10				10			
		0				0			
		10/23			Jun14/24		Jun 10/23		
		Jur			Jur				
		Copper (ppm)				80 T	Silicon (ppm)		
		300				60-			
		틆 200 -				40-			
		100				20-	Abnormal		
		0				0			
		Jun 10/23			Jun14/24		Jun 10/23		
					Jun				
		Viscosity @ 100°	С			6.0 .	Soot %		
		14					Severe		
		Abnormal			ot %	4.0 2.0	Abnormal		
		3 10 - Abnormal				2.0			
		8				0.0			
		0/23			4/24 .		0/23 .		
		Jun 10/23			Jun14/24		Jun10/23		
Sa		: WearCheck - C8-117 : WC0948232 : 02646101	75 Appleby Recei Teste	ved : 08	gton, ON L Jul 2024 Jul 2024	.7L	5H9 Perform		T - VISION TI /ANS AVE OBICOKE

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Contact: Service etobservice@visiontruckgroup.com T: F: Contact/Location: Service ? - PER415ETO

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