

OIL ANALYSIS REPORT





Diesel Engine Fluid DIESEL ENGINE OIL 10W40 (--- GAL)

DIAGNOSIS

Machine Id 9424 Component

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

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. Light fuel dilution occurring. No other contaminants were detected in the oil.

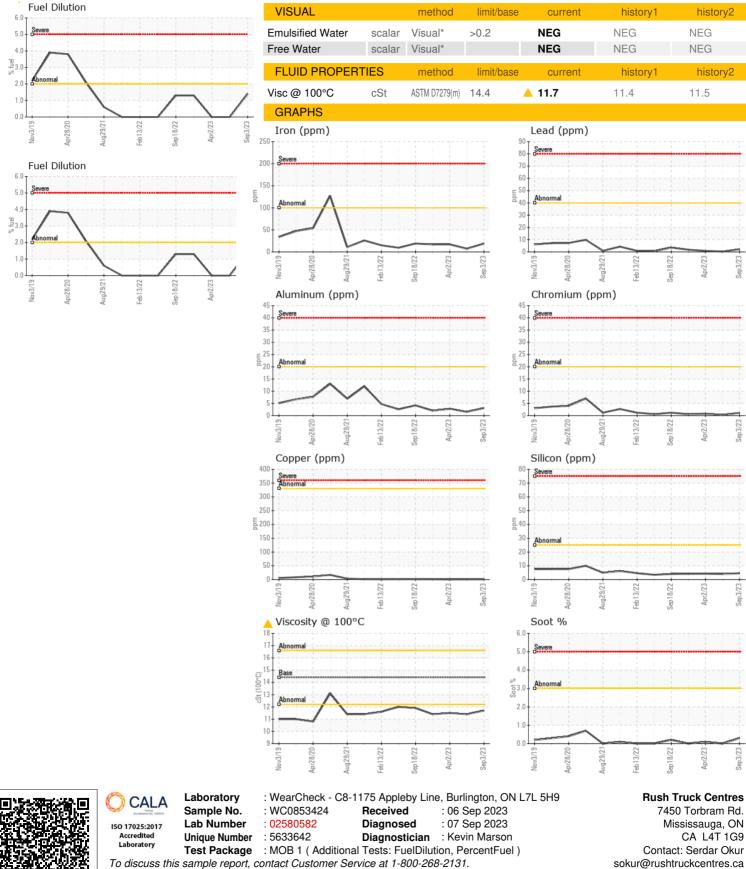
Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sample Number Client Info WC0853424 WC0796542 WC0796544 WC0796544 WC0796544 Sample Date Client Info Method Imil/base current history1 history2 Glycol WC MFMB516666 >10 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <th></th> <th></th> <th></th> <th></th> <th></th> <th>Sep2023</th> <th></th>						Sep2023	
Sample Date Client Info 03 Sep 2023 05 Jun 2023 02 Apr 2023 Machine Age kms Client Info 544444 507469 477956 Oil Age kms Client Info 0 0 0 0 Oil Changed Client Info Changed Not Changed Not Changed NorMAL NorMAL CONTAMINATION method limit/base current history1 history2 Glycol WC Method Imit/base current history1 history2 Kronnum ppm ASTM0518800 >20 1 <1	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine AgekmsClient Info54444507469477956Oil AgeKmsClient Info0000Sample StatusIClient InfoABNORMALNORMALNORMALCONTAMINATIONWC MethodImit/basecurrenthistory1history2GlycolWC MethodImit/basecurrenthistory1history2KannoppmASTM D5185im>10019717ChromiumppmASTM D5185im>201<1	Sample Number		Client Info		WC0853424	WC0796542	WC0796269
Oil Age kms Client Info 0 0 0 0 Oil Changed Client Info Changed Not Changed Not Mode Normal Sample Status I Imit base current history1 Normal Glycol WC Method Imit base current history1 history2 Glycol WC Method Imit base current history1 history2 Iron ppm ASTM D5185(m) >10 1 <1	Sample Date		Client Info		03 Sep 2023	05 Jun 2023	02 Apr 2023
Oli Changed Client Info Changed ABNORMAL Not Changed NORMAL Not Changed NORMAL Changed NORMAL Nor Changed NEG Nor Chan	Machine Age	kms	Client Info		544444	507469	477956
Sample Status Image of the status ABNORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Glycol WC Method Imit/base current history1 history2 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >100 19 7 17 Chromium ppm ASTM D5185(m) >40 1 <1	Oil Age	kms	Client Info		0	0	-
CONTAMINATION method limit/base current history1 history2 Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5186/m >100 19 7 17 Chromium ppm ASTM D5186/m >20 1 <1	Oil Changed		Client Info			-	Changed
Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185(m) >20 1 <1	Sample Status				ABNORMAL	NORMAL	NORMAL
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Chromium ppm ASTM D5185(m) >20 1 <1 <1 <1 Nickel ppm ASTM D5185(m) >4 <1	WEAR METALS		method	limit/base	current	history1	history2
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Titanium ppm ASTM D5185(m) >3 <1 0 <1 Silver ppm ASTM D5185(m) >3 <1	Chromium	ppm	ASTM D5185(m)	>20	1	<1	<1
Silver ppm ASTM D5185(m) >3 <1 0 0 Aluminum ppm ASTM D5185(m) >20 3 2 3 Lead ppm ASTM D5185(m) >40 2 <1 <1 Copper ppm ASTM D5185(m) >40 2 <1 <1 Tin ppm ASTM D5185(m) 15 0 0 0 <1 Antimony ppm ASTM D5185(m) 15 0 0 0 0 Vanadium pm ASTM D5185(m) 15 0 0 0 0 ASTM D5185(m) Pm ASTM D5185(m) 10 0 0 0 ASTM D5185(m) 100 2 2 2 2 Manganese ppm ASTM D5185(m) 100 2 2 2 Manganesium pm ASTM D5185(m) 450 681 729 773 Calcium ppm ASTM D5185(m)	Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
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Cadmium ppm ASTM D5185(m) 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 250 25 66 39 Barium ppm ASTM D5185(m) 10 0 0 0 0 Molybdenum ppm ASTM D5185(m) 100 2 2 2 2 Magnesium ppm ASTM D5185(m) 100 2 2 2 2 Magnesium ppm ASTM D5185(m) 100 2 2 2 2 Calcium ppm ASTM D5185(m) 450 681 729 773 Calcium ppm ASTM D5185(m) 1350 831 790 814 Sulfur ppm ASTM D5185(m) 4250 2538 2538 2654 Lithium ppm ASTM D5185(m) >22 5 4 4 3 Sodium	Vanadium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5/85(m) 250 25 66 39 Barium ppm ASTM D5/85(m) 10 0 0 0 Molybdenum ppm ASTM D5/85(m) 100 2 2 2 Manganese ppm ASTM D5/85(m) 100 2 2 2 Magnesium ppm ASTM D5/85(m) 100 2 2 2 Calcium ppm ASTM D5/85(m) 450 681 729 773 Calcium ppm ASTM D5/85(m) 3000 1450 1332 1470 Phosphorus ppm ASTM D5/85(m) 1150 763 748 778 Zinc ppm ASTM D5/85(m) 1450 2538 2538 2654 Lithium ppm ASTM D5/85(m) >25 5 4 4 Sodium ppm ASTM D5/85(m)	Beryllium	ppm	ASTM D5185(m)		0	0	0
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Magnesium ppm ASTM D5185(m) 450 681 729 773 Calcium ppm ASTM D5185(m) 3000 1450 1332 1470 Phosphorus ppm ASTM D5185(m) 1150 763 748 778 Zinc ppm ASTM D5185(m) 1350 831 790 814 Sulfur ppm ASTM D5185(m) 4250 2538 2538 2654 Lithium ppm ASTM D5185(m) 4250 2538 2538 2654 Silicon ppm ASTM D5185(m) 4250 2538 2538 2654 Solium ppm ASTM D5185(m) 4250 2538 2538 2654 Solium ppm ASTM D5185(m) >25 5 4 4 Sodium ppm ASTM D5185(m) >20 8 4 0 Fuel % ASTM D7893* >2.0 1.4 <1.0	Molybdenum	ppm	ASTM D5185(m)	100	2	2	2
Calcium ppm ASTM D5185(m) 3000 1450 1332 1470 Phosphorus ppm ASTM D5185(m) 1150 763 748 778 Zinc ppm ASTM D5185(m) 1350 831 790 814 Sulfur ppm ASTM D5185(m) 1350 831 790 814 Sulfur ppm ASTM D5185(m) 4250 2538 2538 2654 Lithium ppm ASTM D5185(m) 4250 2538 2654 1 <1	Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Phosphorus ppm ASTM D5185(m) 1150 763 748 778 Zinc ppm ASTM D5185(m) 1350 831 790 814 Sulfur ppm ASTM D5185(m) 4250 2538 2538 2654 Lithium ppm ASTM D5185(m) 4250 2538 2654 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >25 5 4 4 Sodium ppm ASTM D5185(m) >20 8 4 0 Fuel % ASTM D5185(m) >20 8 4 0 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* >3 0.3 0 0.1 Nitration Abs/.m ASTM D7414* >30 25.4 19.0 24.9 FLUID DEGRADATION Method limit/base cu	Magnesium	ppm	ASTM D5185(m)	450	681	729	773
Zinc ppm ASTM D5185(m) 1350 831 790 814 Sulfur ppm ASTM D5185(m) 4250 2538 2538 2654 Lithium ppm ASTM D5185(m) 4250 2538 2538 2654 Lithium ppm ASTM D5185(m) current history1 history2 Silicon ppm ASTM D5185(m) >25 5 4 4 Sodium ppm ASTM D5185(m) >25 5 4 4 Sodium ppm ASTM D5185(m) >20 8 4 0 Fuel % ASTM D5185(m) >20 8 4 0 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* >3 0.3 0 0.1 Nitration Abs/.m ASTM D7624* >20 10.5 8.8 10.2 Sulfation Abs/.1mm ASTM D7644* </td <td>Calcium</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td>3000</td> <th>1450</th> <td>1332</td> <td>1470</td>	Calcium	ppm	ASTM D5185(m)	3000	1450	1332	1470
SulfurppmASTM D5185(m)4250253825382654LithiumppmASTM D5185(m) </td <td>Phosphorus</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td>1150</td> <th>763</th> <td>748</td> <td>778</td>	Phosphorus	ppm	ASTM D5185(m)	1150	763	748	778
LithiumppmASTM D5185(m)<1<1<1CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>25544SodiumppmASTM D5185(m)>20840PotassiumppmASTM D5185(m)>20840Fuel%ASTM D5185(m)>201.4<1.0	Zinc	ppm	ASTM D5185(m)	1350	831	790	814
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>25544SodiumppmASTM D5185(m)>20840PotassiumppmASTM D5185(m)>20840Fuel%ASTM D5185(m)>201.4<1.0	Sulfur	ppm	ASTM D5185(m)	4250	2538	2538	2654
Silicon ppm ASTM D5185(m) >25 5 4 4 Sodium ppm ASTM D5185(m) <25 5 4 4 Sodium ppm ASTM D5185(m) <20 3 3 3 Potassium ppm ASTM D5185(m) >20 8 4 0 Fuel % ASTM D5185(m) >20 1.4 <1.0 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7624* >3 0.3 0 0.1 Nitration Abs/cm ASTM D7624* >20 10.5 8.8 10.2 Sulfation Abs/1mm ASTM D7614* >30 25.4 19.0 24.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm ASTM D7414* >25 19.5 13.6 16.9	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
Sodium ppm ASTM D5185(m) 3 3 3 Potassium ppm ASTM D5185(m) >20 8 4 0 Fuel % ASTM D5185(m) >20 1.4 <1.0 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* >3 0.3 0 0.1 Nitration Abs/cm ASTM D7624* >20 10.5 8.8 10.2 Sulfation Abs/.1mm ASTM D7415* >30 25.4 19.0 24.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm ASTM D7414* >25 19.5 13.6 16.9	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185(m) >20 8 4 0 Fuel % ASTM D7593* >2.0 1.4 <1.0 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7644* >3 0.3 0 0.1 Nitration Abs/cm ASTM D7624* >20 10.5 8.8 10.2 Sulfation Abs/.1mm ASTM D7415* >30 25.4 19.0 24.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm ASTM D7414* >25 19.5 13.6 16.9	Silicon	ppm	ASTM D5185(m)	>25	5	4	4
Fuel % ASTM D7593* >2.0 1.4 <1.0 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* >3 0.3 0 0.1 Nitration Abs/cm ASTM D7624* >20 10.5 8.8 10.2 Sulfation Abs/.1mm ASTM D7415* >30 25.4 19.0 24.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm ASTM D7414* >25 19.5 13.6 16.9	Sodium	ppm	ASTM D5185(m)		3	3	3
INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%ASTM D7844*>30.300.1NitrationAbs/cmASTM D7624*>2010.58.810.2SulfationAbs/.1mmASTM D7415*>3025.419.024.9FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mmASTM D7414*>2519.513.616.9	Potassium	ppm	ASTM D5185(m)	>20	8	4	0
Soot % % ASTM D7844* >3 0.3 0 0.1 Nitration Abs/cm ASTM D7624* >20 10.5 8.8 10.2 Sulfation Abs/.1mm ASTM D7415* >30 25.4 19.0 24.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm ASTM D7414* >25 19.5 13.6 16.9	Fuel	%	ASTM D7593*	>2.0	1.4	<1.0	<1.0
Nitration Abs/cm ASTM D7624* >20 10.5 8.8 10.2 Sulfation Abs/.1mm ASTM D7615* >30 25.4 19.0 24.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm ASTM D7414* >25 19.5 13.6 16.9	INFRA-RED		method	limit/base	current	history1	history2
Nitration Abs/cm ASTM D7624* >20 10.5 8.8 10.2 Sulfation Abs/.1mm ASTM D7415* >30 25.4 19.0 24.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm ASTM D7414* >25 19.5 13.6 16.9	Soot %	%	ASTM D7844*	>3	0.3	0	0.1
Sulfation Abs/.1mm ASTM D7415* >30 25.4 19.0 24.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm ASTM D7414* >25 19.5 13.6 16.9		Abs/cm		>20		8.8	
Oxidation Abs/.1mm ASTM D7414* >25 19.5 13.6 16.9	Sulfation						
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
59:06) Rev: 1 Contact/Location: Serdar Okur - RUSMIS	Oxidation	Abs/.1mm	ASTM D7414*	>25	19.5	13.6	16.9
	59:06) Rev: 1						



OIL ANALYSIS REPORT



Apr2/23

T: (905)671-7600

ep3/23

F:

history2

history2

PIN3/73

11.5