

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id 514004 Component Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

All component wear rates are normal.

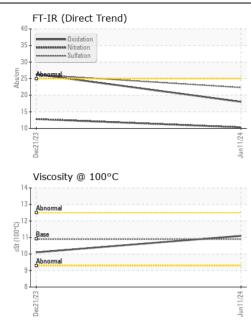
CONTAMINATION

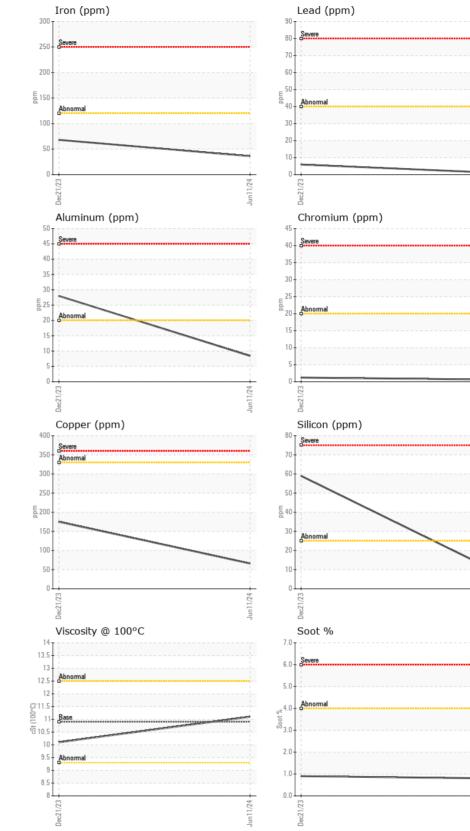
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

TestUOMMethodLimit/AnCurrentHistory1History2Sample NumberClient InfoGFL011556GFL0098568Sample DateClient InfoI11 Jun 202421 Dec 2023Machine AgekmsClient Info00Filter AgekmsClient Info00Gil GhangedClient InfoChangedN/AFilter ChangedClient InfoChangedN/ASample StatusClient InfoChangedN/ASample StatusStample Status>1203668TironpmASTMD51860>1203668NickelpmASTMD51860>20cl1NickelpmASTMD51860>20clSilverpmASTMD51860>2061AluminumpmASTMD51860>2088SilconpmASTMD51860>201166SilconpmASTMD51860>2010SilconpmASTMD51860>2010SilconpmASTMD51860>2010.<SilconpmASTMD51860>2010.<SilconpmASTMD51860>2010.<SilconpmASTM	· · · · · · · · · · · · · · · · · · ·						
Sample DateClient InfoIn Jun 202421 Dec 2023Machine AgekmsClient Info120235694500Oil AgekmsClient Info00Filter AgekmsClient InfoChangedN/AOil ChangedClient InfoChangedN/AFilter ChangedClient InfoChangedN/ASample StatusClient InfoChangedN/AIronppmASTMD5186II>1203668IronppmASTMD5186II>20NickelppmASTMD5186II>20SilverppmASTMD5186II>200AluminumppmASTMD5186II>20828LeadppmASTMD5186II>30661755SilconppmASTMD5186II>2010SilconppmASTMD5186II>2010SilconppmASTMD5186II>2010.0SilconppmASTMD5186II>2010.0SilconppmASTMD5186II>2010.0SilconppmASTMD5186II>2010.0SilconppmASTMD5186II>2010.0SilconppmASTMD5186II <th>Test</th> <th>UOM</th> <th>Method</th> <th>Limit/Abn</th> <th>Current</th> <th>History1</th> <th>History2</th>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgekmsClient IntoI2023569450Oil AgekmsClient Into00Filter AgekmsClient IntoChangedN/AOil ChangedClient IntoChangedN/AFilter Changed1Client IntoChangedN/ASample StatusVNorMALNorMALIronppmASTM05185(m)>12036688NickelppmASTM05185(m)>204111NickelppmASTM05185(m)>2000SilverppmASTM05185(m)>2000AluminumppmASTM05185(m)>20828CopperppmASTM05185(m)>20828SiliconppmASTM05185(m)>201062YanadiumppmASTM05185(m)>202062SiliconppmASTM05185(m)>2010.010SuifationAbs/mASTM05185(m)>2010.010SuifationppmASTM05185(m)>2010.010.0SuifationppmASTM05185(m)>2010.010.0SuifationppmASTM05185(m)>20NEG10.0SuifationAbs/mASTM05185(m)20NEG10.0	Sample Number		Client Info		GFL0115566	GFL0098568	
Oil AgekmsClient Info00Filter AgekmsClient Info00Oil ChangedClient InfoChangedN/AFilter Changed1Client InfoChangedN/ASample StatusVVNORMALIronppmASTMDSI85(m)>12036688NickelppmASTMDSI85(m)>20c11NickelppmASTMDSI85(m)>2000TitaniumppmASTMDSI85(m)>200SilverppmASTMDSI85(m)>20AuminumppmASTMDSI85(m)>20828CopperppmASTMDSI85(m)>20828SiliconppmASTMDSI85(m)>20100SiliconppmASTMDSI85(m)>201062VanadiumppmASTMDSI85(m)>201062SuitationkpmASTMDSI85(m)>201062SuitationppmASTMDSI85(m)>201062SuitationkpmASTMDSI85(m)>201062SuitationkpmASTMDSI85(m)>2010.062SuitationkpmASTMDSI85(m)>20NEGSuitation<	Sample Date		Client Info		11 Jun 2024	21 Dec 2023	
Filter Age OIKinsClient InfoOOOil ChangedClient InfoChangedN/AFilter ChangedClient InfoChangedN/ASample StatusNORMALNORMALIronppmASTMD5186/m>12036688ChromiumppmASTMD5186/m>50<11NickelppmASTMD5186/m>50<1<1NickelppmASTMD5186/m>200<1SilverppmASTMD5186/m>2088288AluminumppmASTMD5186/m>3306661755CopperppmASTMD5186/m>515207SiliconppmASTMD5185/m>2020622SiliconppmASTMD5185/m>2020622SuitarionppmASTMD5185/m>202062SuitarionppmASTMD5185/m>202062Suitarionkbs/rmASTMD5185/m>20NEGNEGSuitarionkbs/rmASTMD5185/m>2010.312.8Suitarionkbs/rmASTMD5185/m>20NEGNEGSuitarionkbs/rmASTMD5185/m>20NEGNEGSuitarionkbs/rmASTMD5185/m>20NEG	Machine Age	kms	Client Info		120235	69450	
Oli ChangedClient IntoChangedN/AFilter ChangedClient IntoChangedN/ASample StatusNORMALNORMALIronppmASTMD518(m)>12036688ChromiumppmASTMD518(m)>50<11NickelppmASTMD518(m)>50<1<1NickelppmASTMD518(m)>200<1SilverppmASTMD518(m)>200<1AluminumppmASTMD518(m)>20828<CopperppmASTMD518(m)>330661750<SilconppmASTMD518(m)>2100SilconppmASTMD518(m)>2020622SulconppmASTMD518(m)>202062SulconppmASTMD518(m)>202062SulconppmASTMD518(m)>202062SulconppmASTMD518(m)>20NEGNEGSulconppmASTMD518(m)>202062SulconppmASTMD518(m)>2010.312.8SulconppmASTMD518(m)>20NEGNEGSulconppmASTMD518(m)2010.312.8Sulcon	Oil Age	kms	Client Info		0	0	
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Nickel ppm ASTM D5185(m) >5 <1 <1 <1 Titanium ppm ASTM D5185(m) >2 0 0 Silver ppm ASTM D5185(m) >2 0 <1	-	ppm	()				
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Fuel WC Method >3.0 <1.0							
Water WC Method >0.2 NEG NEG Glycol WC Method NEG NEG Soot % % ASTM D7844* >4 0.8 0.9 Nitration Abs/cm ASTM D7844* >20 10.3 12.8 Sulfation Abs/cm ASTM D7624* >20 NEG NEG Sulfation Abs/cm ASTM D7624* >0.2 NEG NEG Sodium ppm ASTM D7624* >0.2 NEG NEG Sodium ppm ASTM D5185(m) 10 0 Molybdenum ppm ASTM D5185(m) 100		ppin	(/		-		
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Barium ppm ASTM D5185(m) 10 0 <1	Sodium	ppm	ASTM D5185(m)		5	4	
Molybdenum ppm ASTM D5185(m) 100 67 122 Manganese ppm ASTM D5185(m) 1 4 Magnesium ppm ASTM D5185(m) 450 927 727 Calcium ppm ASTM D5185(m) 3000 1206 1481 Phosphorus ppm ASTM D5185(m) 1150 874 6411 Zinc ppm ASTM D5185(m) 1350 1116 756 Sulfur ppm ASTM D5185(m) 4250 2002 1787 Oxidation Abs/.1mm ASTM D7414* >25 18.0 26.3	Boron	ppm	ASTM D5185(m)	250	4	30	
Manganese ppm ASTM D5185(m) 1 4 Magnesium ppm ASTM D5185(m) 450 927 727 Calcium ppm ASTM D5185(m) 3000 1206 1481 Phosphorus ppm ASTM D5185(m) 1150 874 641 Zinc ppm ASTM D5185(m) 1350 1116 756 Sulfur ppm ASTM D5185(m) 4250 2002 1787 Oxidation Abs/.1mm ASTM D7414* >25 18.0 26.3	Barium	ppm	ASTM D5185(m)	10	0	<1	
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Calcium ppm ASTM D5185(m) 3000 1206 1481 Phosphorus ppm ASTM D5185(m) 1150 874 641 Zinc ppm ASTM D5185(m) 1350 1116 756 Sulfur ppm ASTM D5185(m) 4250 2002 1787 Oxidation Abs/.1mm ASTM D7414* >25 18.0 26.3	Manganese	ppm	ASTM D5185(m)		1	4	
Phosphorus ppm ASTM D5185(m) 1150 874 641 Zinc ppm ASTM D5185(m) 1350 1116 756 Sulfur ppm ASTM D5185(m) 4250 2002 1787 Oxidation Abs/.1mm ASTM D7414* >25 18.0 26.3	Magnesium	ppm	ASTM D5185(m)	450	927	727	
Zinc ppm ASTM D5185(m) 1350 1116 756 Sulfur ppm ASTM D5185(m) 4250 2002 1787 Oxidation Abs/.1mm ASTM D7414* >25 18.0 26.3	Calcium	ppm	ASTM D5185(m)	3000	1206	1481	
Sulfur ppm ASTM D5185(m) 4250 2002 1787 Oxidation Abs/.1mm ASTM D7414* >25 18.0 26.3	Phosphorus	ppm	ASTM D5185(m)	1150	874	641	
Oxidation Abs/.1mm ASTM D7414* >25 18.0 26.3	Zinc	ppm	ASTM D5185(m)	1350	1116	756	
	Sulfur	ppm	ASTM D5185(m)	4250	2002	1787	
Visc@100°C cSt ASTM D7279(m) 10.9 11.1 10.1	Oxidation	Abs/.1mm	ASTM D7414*	>25	18.0	26.3	
	Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.1	10.1	





GFL Environmental - 245 - BJ Bear Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received : 13 Jun 2024 2616 Cedar Creek Road : GFL0115566 Ayr, ON Lab Number : 02641599 Tested : 13 Jun 2024 ISO 17025:2017 Accredited Laboratory Diagnosed Unique Number : 5799138 : 13 Jun 2024 - Wes Davis CA NOB 1E0 Test Package : MOB 1 Contact: Erik Prpic To discuss this sample report, contact Customer Service at 1-800-268-2131. eprpic@gflenv.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (519)570-9000 Validity of results and interpretation are based on the sample and information as supplied. F:

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