

68102

Diesel Engine

DIESEL ENGINE OIL SAE 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 5W40. Please confirm. Please specify the component make and model with your next sample.



All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

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

Test UOM Method Limit/An Current History1 History2 Sample Dumber Client Info 0 4/uo224 Machine Age hrs Client Info 0 3720 Oil Age hrs Client Info 0 Oil Changed Client Info N/A Filter Age hrs Client Info N/A Sample Status N/A Iron ppm ASTMD5185/m >100 13 Sample Data Client Info N/A Sample Status N/A Sample Data STMD5185/m >100 Iron ppm ASTMD5185/m >3 0 Aluminum </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Sample Date Client Info 04 Jun 2024 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info N/A Oil Changed Client Info N/A Filter Age nrs Client Info N/A Sample Status Viant Iron ppm ASTM 05185(m) >20 <1 Nickel ppm ASTM 05185(m) >20 <5 Aluminum ppm ASTM 05185(m) >20 5 Vanadum ppm ASTM 05185(m) >20 5 Vanadum ppm ASTM 05185(m) >20 1 Vanadum ppm ASTM 05185(m) <t< th=""><th>Test</th><th>UOM</th><th>Method</th><th>Limit/Abn</th><th>Current</th><th>History1</th><th>History2</th></t<>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age Oil Age hrs Client Info 3720 Filter Age hrs Client Info 0 Filter Age hrs Client Info N/A Filter Changed Client Info N/A Sample Status Client Info N/A Iron ppm ASTM D5185(m) >100 13 Nickel ppm ASTM D5185(m) >20 <1 Nickel ppm ASTM D5185(m) >30 Silver ppm ASTM D5185(m) >30 <1 Copper ppm ASTM D5185(m) >30 <1 Valadium ppm ASTM D5185(m) >20 Veltow Metal scalar Visual* NONE Yeltow Metal	Sample Number		Client Info		PC0082951		
Oil Age hrs Client Info 0 Filter Age hrs Client Info N/A Oil Changed Client Info N/A Sample Status Client Info N/A Iron ppm ASTM05185(m) >20 <1 Nickel ppm ASTM05185(m) >20 <1 Nickel ppm ASTM05185(m) >20 <1 Nickel ppm ASTM05185(m) >20 5 Aluminum ppm ASTM05185(m) >20 5 Vanadium ppm ASTM05185(m) >20 5 Vanadum ppm ASTM05185(m) >20 Vanadum ppm ASTM05185(m) >20 <1 Vanadum ppm ASTM05185(m)	Sample Date		Client Info		04 Jun 2024		
Filter Age hrs Client Info 0 Cli Changed Client Info N/A Filter Changed Client Info N/A Sample Status Client Info N/A Sample Status NORMAL Chromium ppm ASTM D5185(m) >-00 Nickel ppm ASTM D5185(m) >-20 Silver ppm ASTM D5185(m) >30 Lead ppm ASTM D5185(m) >30 Vanadium ppm ASTM D5185(m) >30 Vanadum ppm ASTM D5185(m) >0 Vallow Metal scalar Visual* NONE Vallow Metal scalar Visual* NONE Vallow Metal scalar <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>3720</th> <th></th> <th></th>	Machine Age	hrs	Client Info		3720		
Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status NORMAL Iron ppm ASTM 05185(m) >100 13 Nickel ppm ASTM 05185(m) >20 <1 Nickel ppm ASTM 05185(m) >20 <1 Silver ppm ASTM 05185(m) >20 5 Lead ppm ASTM 05185(m) >30 <1 Vanadium ppm ASTM 05185(m) >30 <1 Vanadium ppm ASTM 05185(m) >10 Vanadium ppm ASTM 05185(m) >25 6 Vellow Metal scalar Visual* NONE NONE Solicon ppm	Oil Age	hrs	Client Info		0		
Filter Changed Sample Status Client Info N/A Iron ppm ASTM D5185(m) >100 13 Iron ppm ASTM D5185(m) >20 <1 Nickel ppm ASTM D5185(m) >20 <1 Titanium ppm ASTM D5185(m) >30 0 Aluminum ppm ASTM D5185(m) >20 5 Lead ppm ASTM D5185(m) >40 0 Vanadium ppm ASTM D5185(m) >40 0 Vanadum ppm ASTM D5185(m) >40 0 Vanadum ppm ASTM D5185(m) >20 <1 Vanadum ppm ASTM D5185(m) >20 <1 Vanadum ppm ASTM D5185(m) <t< th=""><th>Filter Age</th><th>hrs</th><th>Client Info</th><th></th><th>0</th><th></th><th></th></t<>	Filter Age	hrs	Client Info		0		
Sample Status NORMAL	Oil Changed		Client Info		N/A		
Iron ppm ASTM D5185(m) >100 13 Chromium ppm ASTM D5185(m) >20 <1 Nickel ppm ASTM D5185(m) >4 0 Titanium ppm ASTM D5185(m) >3 0 Silver ppm ASTM D5185(m) >20 5 Lead ppm ASTM D5185(m) >30 <1 Copper ppm ASTM D5185(m) >30 <1 Vanadium ppm ASTM D5185(m) >10 Valead scalar Visual* NONE VLITE Vellow Metal scalar Visual* NONE NORE Sold % % ASTM D5185(m) >20 sc1.0 Sold scalar Visua	Filter Changed		Client Info		N/A		
Chromium ppm ASTM D5185(m) >20 <1	Sample Status				NORMAL		
Chromium ppm ASTM D5185(m) >20 <1							
Nickel ppm ASTM D5185(m) >4 0 Titanium ppm ASTM D5185(m) >3 0 Silver ppm ASTM D5185(m) >3 0 Lead ppm ASTM D5185(m) >40 0 Copper ppm ASTM D5185(m) >30 <1 Copper ppm ASTM D5185(m) >30 <1 Vanadium ppm ASTM D5185(m) >15 0 Vanadium ppm ASTM D5185(m) >20 <1 Vanadium ppm ASTM D5185(m) >20 <1 Vanadium ppm ASTM D5185(m) >20 <1	-	ppm	()		-		
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Silver ppm ASTM D5185(m) >3 0 Aluminum ppm ASTM D5185(m) >40 0 Lead ppm ASTM D5185(m) >40 0 Copper ppm ASTM D5185(m) >10 Tin ppm ASTM D5185(m) S0 Vanadium ppm ASTM D5185(m) S0 White Metal scalar Visual* NONE Yellow Metal scalar Visual* NONE Silicon ppm ASTM D5185(m) >20 <1 Fuel WC Method >0.2 NEG Glycol WC Method >0.2 NEG Sot % % ASTM D764* >3 0 Sul			()	>4	-		
Aluminum ppm ASTM D5185(m) >20 5 Lead ppm ASTM D5185(m) >40 0 Copper ppm ASTM D5185(m) >330 <1 Vanadium ppm ASTM D5185(m) >15 0 Vanadium ppm ASTM D5185(m) >10 0 Vanadium ppm ASTM D5185(m) >25 6 Yellow Metal scalar Visual* NONE NONE Solicon ppm ASTM D5185(m) >20 <1 Water WC Method >0.2 NEG Glycol WC Method >0.2 NEG Solt % % ASTM D718* >30 21.0 Sulfation Abs/:m <th></th> <th>ppm</th> <th></th> <th></th> <th>-</th> <th></th> <th></th>		ppm			-		
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Copper ppm ASTM D5185(m) >330 <1		ppm	1 / /		-		
Tin ppm ASTM D5185(m) >15 0 Vanadium ppm ASTM D5185(m) 0 White Metal scalar Visual* NONE VLITE Yellow Metal scalar Visual* NONE NONE Silicon ppm ASTM D5185(m) >20 <1 Potassium ppm ASTM D5185(m) >20 <1 Fuel WC Method >0 Water WC Method >0.2 NEG Soot % % ASTM D7844* >3 0 Sulfation Abs/tmm ASTM D7624* >20 8.2 Sulfation Abs/tm ASTM D7145* >30 21.0 Sand/Dirt scalar Visual* <t< th=""><th></th><th></th><th>()</th><th></th><th>-</th><th></th><th></th></t<>			()		-		
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Yellow Metal scalar Visual* NONE Silicon ppm ASTM D5185(m) >20 <1 Potassium ppm ASTM D5185(m) >20 <1 Fuel WC Method >5 <1.0 Water WC Method >0 Glycol WC Method >0 Soot % % ASTM D784* >3 0 Sulfation Abs/cm ASTM D715* >30 21.0 Sulfation Abs/cm ASTM D7145* >30 21.0 Sadr/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Appearance scalar Visual* <td< th=""><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th></td<>					-		
Silicon ppm ASTM D5185(m) >25 6 Potassium ppm ASTM D5185(m) >20 <1 Fuel WC Method >5 <1.0 Water WC Method >0 Glycol WC Method >0 Soot % % ASTM D7844' >3 0 Sulfation Abs/cm ASTM D7644' >30 21.0 Sulfation Abs/cm ASTM D7415' >30 21.0 Sulfation Abs/cm ASTM D7415' >30 21.0 Sulfation scalar Visual* NONE VLITE Bard/Dirt scalar Visual* NORML NORML Appearance scalar Visual* NORML							
Potassium ppm ASTM D5185(m) >20 <1	Yellow Metal	scalar	Visual*	NONE	NONE		
Potassium ppm ASTM D5185(m) >20 <1	Silioon	000	ACTM DE10E(m)	. 05	6		
Fuel WC Method >5 <1.0					-		
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Sodium ppm ASTM D5185(m) >44 2 Boron ppm ASTM D5185(m) 250 15 Barium ppm ASTM D5185(m) 10 0 Barium ppm ASTM D5185(m) 100 43 Molybdenum ppm ASTM D5185(m) 100 43 Manganese ppm ASTM D5185(m) 100 43 Magnesium ppm ASTM D5185(m) 100 43 Calcium ppm ASTM D5185(m) 3000 2517 Phosphorus ppm ASTM D5185(m) 1350 1336 Sulfur ppm ASTM D5185(m) 4250 3044 Oxidation Abs/.1mm ASTM D7279(m) 91 88.5 Visc @ 100°C </th <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th>					-		
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Barium ppm ASTM D5185(m) 10 0 Molybdenum ppm ASTM D5185(m) 100 43 Manganese ppm ASTM D5185(m) 100 43 Magnesium ppm ASTM D5185(m) 0 Calcium ppm ASTM D5185(m) 3000 2517 Phosphorus ppm ASTM D5185(m) 1150 1110 Zinc ppm ASTM D5185(m) 1350 1336 Sulfur ppm ASTM D5185(m) 4250 3044 Oxidation Abs/.1mm ASTM D7279(m) 91 88.5 Visc @ 100°C cSt ASTM D7279(m) 14.4 13.1	Sodium	ppm	ASTM D5185(m)	>44	2		
Molybdenum ppm ASTM D5185(m) 100 43 Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 Calcium ppm ASTM D5185(m) 3000 2517 Phosphorus ppm ASTM D5185(m) 1150 1110 Zinc ppm ASTM D5185(m) 1350 1336 Sulfur ppm ASTM D5185(m) 4250 3044 Oxidation Abs/.1mm ASTM D7279(m) 91 88.5 Visc @ 100°C cSt ASTM D7279(m) 14.4 13.1	Boron	ppm	ASTM D5185(m)	250	15		
Molybdenum ppm ASTM D5185(m) 100 43 Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 450 398 Calcium ppm ASTM D5185(m) 3000 2517 Phosphorus ppm ASTM D5185(m) 1150 1110 Zinc ppm ASTM D5185(m) 1350 1336 Sulfur ppm ASTM D5185(m) 4250 3044 Oxidation Abs/.1mm ASTM D7279(m) 91 88.5 Visc @ 100°C cSt ASTM D7279(m) 14.4 13.1	Barium	ppm	ASTM D5185(m)	10	0		
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Calcium ppm ASTM D5185(m) 3000 2517 Phosphorus ppm ASTM D5185(m) 1150 1110 Zinc ppm ASTM D5185(m) 1350 1336 Sulfur ppm ASTM D5185(m) 4250 3044 Oxidation Abs/.1mm ASTM D7414* >25 15.3 Visc @ 40°C cSt ASTM D7279(m) 91 88.5 Visc @ 100°C cSt ASTM D7279(m) 14.4 13.1	Manganese		ASTM D5185(m)		0		
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Zinc ppm ASTM D5185(m) 1350 1336 Sulfur ppm ASTM D5185(m) 4250 3044 Oxidation Abs/.1mm ASTM D7414* >25 15.3 Visc @ 40°C cSt ASTM D7279(m) 91 88.5 Visc @ 100°C cSt ASTM D7279(m) 14.4 13.1	Calcium	ppm	ASTM D5185(m)	3000	2517		
Sulfur ppm ASTM D5185(m) 4250 3044 Oxidation Abs/.1mm ASTM D7414* >25 15.3 Visc @ 40°C cSt ASTM D7279(m) 91 88.5 Visc @ 100°C cSt ASTM D7279(m) 14.4 13.1	Phosphorus	ppm	ASTM D5185(m)	1150	1110		
Oxidation Abs/.1mm ASTM D7414* >25 15.3 Visc @ 40°C cSt ASTM D7279(m) 91 88.5 Visc @ 100°C cSt ASTM D7279(m) 14.4 13.1	Zinc	ppm	ASTM D5185(m)	1350	1336		
Visc @ 40°C cSt ASTM D7279(m) 91 88.5 Visc @ 100°C cSt ASTM D7279(m) 14.4 13.1	Sulfur	ppm	ASTM D5185(m)	4250	3044		
Visc @ 100°C cSt ASTM D7279(m) 14.4 13.1	Oxidation	Abs/.1mm	ASTM D7414*	>25	15.3		
	Visc @ 40°C	cSt	ASTM D7279(m)	91	88.5		
Viscosity Index (VI) Scale ASTM D2270* 164 147	Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.1		
	Viscosity Index (VI)	Scale	ASTM D2270*	164	147		

WEAR

CONTAMINATION

FLUID CONDITION

NORMAL

NORMAL

NORMAL



