

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area DICK LAVY **DICK LAVY 4964**

Component Front Differential GEAR OIL SAE 75W90 (--- 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) GEAR OIL SAE 75W90. Please confirm. Please specify the component make and model

with your next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

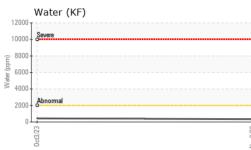
Fluid Condition

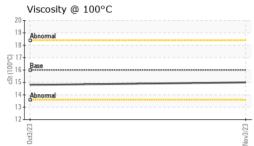
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

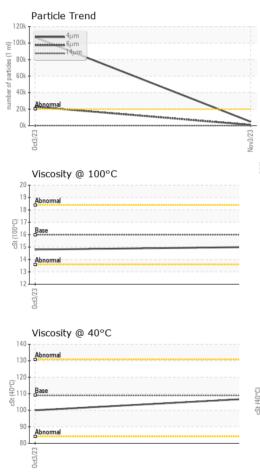
Sample Number Client Info WC0843132 WC0843133 Sample Date Client Info 03 Nov 2023 03 Oct 2023 Machine Age mls Client Info 481 481 Oil Age mls Client Info N/A N/A Sample Status Client Info N/A N/A WEAR METALS method Imil/base current History1 History1 Iron ppm ASTM D5185m >500 0 16 Nickel ppm ASTM D5185m >10 0 0 Aluminum ppm ASTM D5185m >25 0 0 Aluminum ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >10 0 Cadmium ppm ASTM D5185m 10 0 Cadmium <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
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Machine Age mis Client Info 461 481 Oil Age mis Client Info 0 0 Oil Changed Client Info N/A N/A N/A Sample Status Imit/base current History History Iron ppm ASTM D5185m >500 0 16 Nickel ppm ASTM D5185m >10 0 0 Aluminum ppm ASTM D5185m >10 0 0 Aluminum ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >10 <1	Sample Number		Client Info		WC0843132	WC0843133	
Oil Age mis Client Info 0 0 Oil Changed Client Info N/A N/A N/A Sample Status Imilibase Current history1 History1 Iron ppm ASTM D5185m >500 0 16 Chromium ppm ASTM D5185m >10 0 0 Nickel ppm ASTM D5185m >10 0 0 Aluminum ppm ASTM D5185m >25 0 0 Aluminum ppm ASTM D5185m >25 0 0 Age ppm ASTM D5185m >10 0 0 Capper ppm ASTM D5185m 10 0 0 ADDITVES method limit/base current history1 history1 Barium ppm ASTM D5185m 10 0 Molybdenum<	Sample Date		Client Info		03 Nov 2023	03 Oct 2023	
Oil Changed Client Info N/A N/A ABNORMAL ABNORMAL Sample Status method limit/base current history1 history1 WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >500 0 16 Chromium ppm ASTM D5185m >10 0 0 Silver ppm ASTM D5185m >25 0 0 Cadmium ppm ASTM D5185m >25 0 0 Lead ppm ASTM D5185m >25 0 0 Cadmium ppm ASTM D5185m >10 <1	Machine Age	mls	Client Info		481	481	
Sample Status Image NORMAL ABNORMAL WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >500 0 16 Nickel ppm ASTM D5185m >10 0 0 Nickel ppm ASTM D5185m >10 0 0 Aluminum ppm ASTM D5185m >25 0 0 Aluminum ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >100 0 Cadmium ppm ASTM D5185m 0 <-1	Oil Age	mls	Client Info		0	0	
WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >500 0 16 Nickel ppm ASTM D5185m >10 0 <1	Oil Changed		Client Info		N/A	N/A	
Iron ppm ASTM D5185m >500 0 16 Chromium ppm ASTM D5185m >10 0 <1	Sample Status				NORMAL	ABNORMAL	
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Nickel ppm ASTM D5165m >10 0 0 Titanium ppm ASTM D5165m <1	Iron	ppm	ASTM D5185m	>500	0	16	
Titanium ppm ASTM D5185m 0 0 Silver ppm ASTM D5185m <1	Chromium	ppm	ASTM D5185m	>10	0	<1	
Silver ppm ASTM D5185m <1 3 Aluminum ppm ASTM D5185m >25 0 0 Lead ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >100 0 0 Vanadium ppm ASTM D5185m >100 <1	Nickel	ppm	ASTM D5185m	>10	0	0	
Aluminum ppm ASTM D5185m >25 0 0 Lead ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >10 <1	Titanium	ppm	ASTM D5185m		0	0	
Lead ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >100 0 0 Vanadium ppm ASTM D5185m >10 <1	Silver	ppm	ASTM D5185m		<1	3	
Copper ppm ASTM D5185m >100 0 Tin ppm ASTM D5185m >10 <1	Aluminum	ppm	ASTM D5185m	>25	0	0	
Tin ppm ASTM D5185m >10 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 <1	Lead	ppm	ASTM D5185m	>25	0	0	
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 400 264 167 Barium ppm ASTM D5185m 200 0 2 Molybdenum ppm ASTM D5185m 12 0 0 Marganese ppm ASTM D5185m 12 <1 <1 Calcium ppm ASTM D5185m 150 1 16 Sulfur ppm ASTM D5185m 150 1 16 Sulfur ppm ASTM D5185m 125 0 10 Sulfur ppm ASTM D5185m 22500 23819 23334 Solicon ppm ASTM D5185m >20 0	Copper	ppm	ASTM D5185m	>100	0	0	
Cadmium ppm ASTM D5185m 0 <1 ADDITIVES method limit/base current history1 history Boron ppm ASTM D5185m 400 264 167 Barium ppm ASTM D5185m 200 0 2 Molybdenum ppm ASTM D5185m 12 0 0 6 Magnesse ppm ASTM D5185m 12 <1	Tin	ppm	ASTM D5185m	>10	<1	<1	
ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 400 264 167 Barium ppm ASTM D5185m 200 0 2 Molybdenum ppm ASTM D5185m 12 0 0 Magnesium ppm ASTM D5185m 12 <1	Vanadium	ppm	ASTM D5185m		0	0	
Boron ppm ASTM D5185m 400 264 167 Barium ppm ASTM D5185m 200 0 2 Molybdenum ppm ASTM D5185m 12 0 0 Manganese ppm ASTM D5185m 12 <1	Cadmium		ASTM D5185m		0	<1	
Barium ppm ASTM D5185m 200 0 2 Molybdenum ppm ASTM D5185m 12 0 0 Manganese ppm ASTM D5185m 12 <1	ADDITIVES		method	limit/base	current	history1	history2
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Manganese ppm ASTM D5185m 0 6 Magnesium ppm ASTM D5185m 12 <1	Barium	ppm	ASTM D5185m	200	0	2	
Manganese ppm ASTM D5185m 0 6 Magnesium ppm ASTM D5185m 12 <1	Molybdenum		ASTM D5185m	12	0	0	
Calcium ppm ASTM D5185m 150 1 16 Phosphorus ppm ASTM D5185m 1650 1420 1115 Zinc ppm ASTM D5185m 125 0 10 Sulfur ppm ASTM D5185m 22500 23819 23334 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >75 1 12 Sodium ppm ASTM D5185m >75 1 12 Sodium ppm ASTM D5185m >0 2 Potassium ppm ASTM D5185m >20 0 <1	-	ppm	ASTM D5185m		0	6	
Calcium ppm ASTM D5185m 150 1 16 Phosphorus ppm ASTM D5185m 1650 1420 1115 Zinc ppm ASTM D5185m 125 0 10 Sulfur ppm ASTM D5185m 22500 23819 23334 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >75 1 12 Sodium ppm ASTM D5185m >75 1 12 Sodium ppm ASTM D5185m >20 0 <1	Magnesium		ASTM D5185m	12	<1	<1	
Zinc ppm ASTM D5185m 125 0 10 Sulfur ppm ASTM D5185m 22500 23819 23334 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >75 1 12 Sodium ppm ASTM D5185m >0 2 Potassium ppm ASTM D5185m 0 2 Water % ASTM D6304 >.2 0.034 0.043 Particles >4µm ASTM D7647 >2000 341.5 436.4 FLUID CLEANLINESS method limit/base current history1 history Particles >4µm ASTM D7647 >2000 4741 106897 Particles >6µm ASTM D7647 >5000 924 22828 Particles >1µm ASTM D7647 >640 33 131	Calcium	ppm	ASTM D5185m	150	1	16	
Zinc ppm ASTM D5185m 125 0 10 Sulfur ppm ASTM D5185m 22500 23819 23334 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >75 1 12 Sodium ppm ASTM D5185m >75 1 12 Sodium ppm ASTM D5185m >0 2 Potassium ppm ASTM D5185m >20 0 <1	Phosphorus	ppm	ASTM D5185m	1650	1420	1115	
Sulfur ppm ASTM D5185m 22500 23819 23334 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >75 1 12 Sodium ppm ASTM D5185m >75 1 12 Potassium ppm ASTM D5185m >20 0 <1			ASTM D5185m	125	0	10	
Silicon ppm ASTM D5185m<>75 1 12 Sodium ppm ASTM D5185m 0 2 Potassium ppm ASTM D5185m >20 0 <1	Sulfur		ASTM D5185m	22500	23819	23334	
Sodium ppm ASTM D5185m 0 2 Potassium ppm ASTM D5185m >20 0 <1 Water % ASTM D5185m >20 0 <1 Water % ASTM D5185m >20 0 <1 Water % ASTM D6304 >.2 0.034 0.043 ppm Water ppm ASTM D6304 >2000 341.5 436.4 FLUID CLEANLINESS method limit/base current history1 history Particles >4µm ASTM D7647 >20000 4741 106897 Particles >6µm ASTM D7647 >5000 924 22828 Particles >14µm ASTM D7647 >640 33 131 Particles >21µm ASTM D7647 >160 7 12 Particles >71µm ASTM D7647 >10 0 0	CONTAMINANTS	\$	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 <1 Water % ASTM D6304 >.2 0.034 0.043 ppm Water ppm ASTM D6304 >.2000 341.5 436.4 FLUID CLEANLINESS method limit/base current history1 history Particles >4µm ASTM D7647 >20000 4741 106897 Particles >6µm ASTM D7647 >5000 924 22828 Particles >14µm ASTM D7647 >640 33 131 Particles >21µm ASTM D7647 >160 7 12 Particles >38µm ASTM D7647 >40 0 1 Particles >71µm ASTM D7647 >10 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 19/17/12 24/22/14	Silicon	ppm	ASTM D5185m	>75	1	12	
Potassium ppm ASTM D5185m >20 0 <1 Water % ASTM D6304 >.2 0.034 0.043 ppm Water ppm ASTM D6304 >.2000 341.5 436.4 FLUID CLEANLINESS method limit/base current history1 history Particles >4µm ASTM D7647 >20000 4741 106897 Particles >6µm ASTM D7647 >5000 924 22828 Particles >14µm ASTM D7647 >640 33 131 Particles >21µm ASTM D7647 >160 7 12 Particles >38µm ASTM D7647 >40 0 1 Particles >71µm ASTM D7647 >10 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 19/17/12 24/22/14	Sodium	ppm	ASTM D5185m		0	2	
Water % ASTM D6304 >.2 0.034 0.043 ppm Water ppm ASTM D6304 >2000 341.5 436.4 FLUID CLEANLINESS method limit/base current history1 history Particles >4µm ASTM D7647 >20000 4741 106897 Particles >6µm ASTM D7647 >5000 924 ≥2828 Particles >14µm ASTM D7647 >640 33 131 Particles >14µm ASTM D7647 >100 7 12 Particles >21µm ASTM D7647 >40 0 1 Particles >38µm ASTM D7647 >10 0 0 Particles >71µm ASTM D7647 >10 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 19/17/12 24/22/14 FLUID DEGRADATION method limit/base current history1 history				>20	0	<1	
FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 >20000 4741 ▲ 106897 Particles >6µm ASTM D7647 >5000 924 ▲ 22828 Particles >14µm ASTM D7647 >640 33 131 Particles >21µm ASTM D7647 >160 7 12 Particles >21µm ASTM D7647 >40 0 1 Particles >38µm ASTM D7647 >10 0 0 Particles >71µm ASTM D7647 >10 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 19/17/12 24/22/14 FLUID DEGRADATION method limit/base current history1 history1	Water		ASTM D6304	>.2	0.034	0.043	
Particles >4µm ASTM D7647 >20000 4741 ▲ 106897 Particles >6µm ASTM D7647 >5000 924 ▲ 22828 Particles >14µm ASTM D7647 >640 33 131 Particles >14µm ASTM D7647 >160 7 12 Particles >21µm ASTM D7647 >160 7 12 Particles >38µm ASTM D7647 >40 0 1 Particles >38µm ASTM D7647 >10 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 19/17/12 24/22/14 FLUID DEGRADATION method limit/base current history1 history1	ppm Water	ppm	ASTM D6304	>2000	341.5	436.4	
Particles >6µm ASTM D7647 >5000 924 ▲ 22828 Particles >14µm ASTM D7647 >640 33 131 Particles >21µm ASTM D7647 >160 7 12 Particles >21µm ASTM D7647 >40 0 1 Particles >38µm ASTM D7647 >40 0 1 Particles >71µm ASTM D7647 >10 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 19/17/12 ▲ 24/22/14 FLUID DEGRADATION method limit/base current history1 history1	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
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Particles >21μm ASTM D7647 >160 7 12 Particles >38μm ASTM D7647 >40 0 1 Particles >38μm ASTM D7647 >40 0 1 Particles >71μm ASTM D7647 >10 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 19/17/12 24/22/14 FLUID DEGRADATION method limit/base current history1 history1	Particles >6µm		ASTM D7647	>5000	924	▲ 22828	
Particles >38μm ASTM D7647 >40 0 1 Particles >71μm ASTM D7647 >10 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 19/17/12 24/22/14 FLUID DEGRADATION method limit/base current history1 history1	Particles >14µm		ASTM D7647	>640	33	131	
Particles >71μm ASTM D7647 >10 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 19/17/12 24/22/14 FLUID DEGRADATION method limit/base current history1 history1	Particles >21µm		ASTM D7647	>160	7	12	
Oil Cleanliness ISO 4406 (c) >21/19/16 19/17/12 ▲ 24/22/14 FLUID DEGRADATION method limit/base current history1 history1	Particles >38µm		ASTM D7647	>40	0	1	
Oil Cleanliness ISO 4406 (c) >21/19/16 19/17/12 ▲ 24/22/14 FLUID DEGRADATION method limit/base current history1 history1	Particles >71µm		ASTM D7647	>10	0	0	
					19/17/12	▲ 24/22/14	
Acid Number (AN) mg KOH/g ASTM D8045 2.00 2.29 2.89	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	2.29	2.89	



OIL ANALYSIS REPORT







VISUAL		method	limit/base	current		history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate		*Visual	NONE	NONE	NONE	
		*Visual	NONE		LIGHT	
				-		
2 Odor				-		
			<i>7.</i> L	-		
			limit/base			history2
	5	method	limit/base		nistory i	history2
2 Color				Fleet Pick a Unit ID Unit Coolant C Coolant C	Anna Frank	no image
Bottom						no image
Ferrous Alloys			491.52			T21
iron				Severe		
chromium			122,88	0		-2
5+			30,72	0 Abnormal		-2
0			7.68	0		-2
13/23			/3/23			
00			Q a 1,92			-11
Non-ferrous Meta	ls		48 autice	0		-1
10 conner						-2 -1: -1: -1:
assessessessessessessessessessessessesse			qum			
			- 3	0-		-1
2 -				8 -		-1
			23	2		
0ct3/			Vov3/	-		
			_	0. 4μ 6μ	14µ 21µ	38µ 71µ
140			Gu			
Abnormal			KOH/(Abnormal		
© 120 - € B ase			Bu J	Base		
र्छ 100			under der der der der der der der der der			
			N Pizz			
Abnormal				53		
80			12	S		
80 Abnormal EVEN			Nov3/23	0ct3/23		
y : WearCheck USA - 5			ry, NC 2751		BASF - GIANNA	
y : WearCheck USA - 5 . : WC0843132	Received	: 20 1	ry, NC 2751 Nov 2023		500 WHIT	E PLAINS F
y : WearCheck USA - 5 . : WC0843132 er : 06013264	Received Diagnose	: 20 M d : 21 M	ry, NC 2751 Nov 2023 Nov 2023		500 WHIT	E PLAINS F RYTOWN, N
y : WearCheck USA - 5 . : WC0843132 er : 06013264	Received Diagnose Diagnosti	: 20 M d : 21 M cian : Wes	ry, NC 2751 Nov 2023 Nov 2023 s Davis	3	500 WHIT	e plains f Rytown, n Us 105
	Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPER Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAGE Color Bottom GRAPHS Ferrous Alloys Competing Non-ferrous Metal Non-ferrous Metal Viscosity @ 40°C	Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Free Water scalar FLUID PROPERTIES Visc @ 40°C cSt Viscosity Index (VI) Scale SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys Color Mon-ferrous Metals	Yellow Metal Precipitate Scalar Visual Debris Scalar Visual Debris Scalar Visual Debris Scalar Visual Sand/Dirt Scalar Visual Appearance Scalar Visual Emulsified Water Scalar Visual Free Water Scalar Free Water Scalar Free Water Scalar Free Water Scalar Free Water Free Water Scalar Free Water Free Water	Yellow Metal scalar "Visual NONE Precipitate scalar "Visual NONE Silt scalar "Visual NONE Sand/Dirt scalar "Visual NONE Sand/Dirt scalar "Visual NONE Appearance scalar "Visual NORML Odor scalar "Visual NORML Odor scalar "Visual NORML Emulsified Water scalar "Visual NORML Emulsified Water scalar "Visual NORML Emulsified Water scalar "Visual S.2 Free Water scalar "Visual NORML Emulsified Water Scalar "Visual NORML Emulsified Water Scalar "Visual S.2 Free Water Scalar "Visual S.2 Free Water Scalar "Visual NORML Emulsified Water Scalar "Visual S.2 Free Water Scalar "Visual S.2 Free Water Scalar "Visual S.2 Free Water Scalar "Visual S.2 For Color C CSt ASTM D445 109 Viscosity Index (VI) Scale ASTM D2270 157 SAMPLE IMAGES method Imit/base Color Bottom GRAPHS Ferrous Alloys Viscosity @ 40°C Viscosity @ 40°C	Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Visc @ 40°C cSt ASTM D445 109 107 Visc @ 100°C cSt ASTM D445 16.0 15.0 Viscosity Index (VI) Scale ASTM D2270 157 146 Generatin and and and and and and and and and an	Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Sitt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Viscoity Index (VI) Scala ASTM D445 10.9 107 100 100 Viscoity Index (VI) Scale ASTM D445 16.0 15.0 14.8 146

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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