

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
M120
Component
Top Gearbox
Fluid
GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

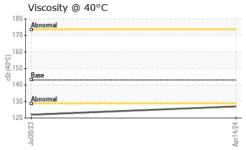
Fluid Condition

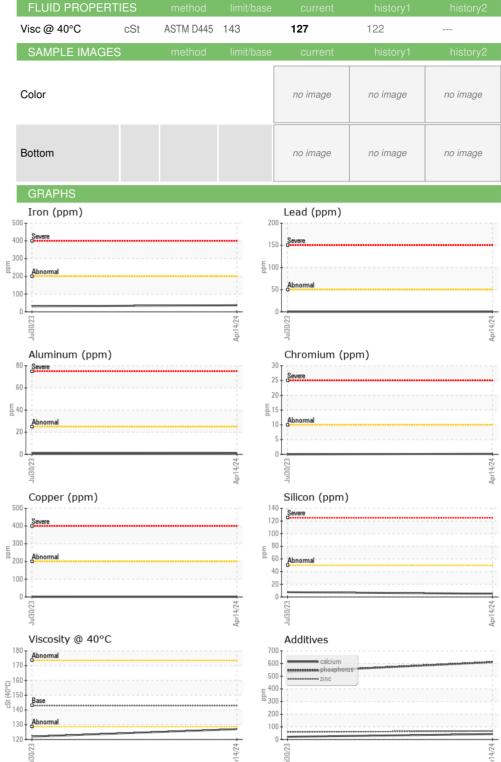
The condition of the oil is acceptable for the time in service.

Sample Number				Jul2023	Apr2024		
Sample Date Client Info 14 Apr 2024 30 Jul 2023	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date	Sample Number		Client Info		WC0858467	WC0831051	
Machine Age hrs Client Info 0 0	· · ·		Client Info		14 Apr 2024	30 Jul 2023	
Oil Age hrs Client Info N/A N/A N/A Sample Status Client Info N/A N/A N/A CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m 200 37 31 Chromium ppm ASTM D5185m >10 <1 0 Nickel ppm ASTM D5185m >10 0 0 Silver ppm ASTM D5185m >10 0 0 Aluminum ppm ASTM D5185m >20 0 0 Aluminum ppm ASTM D5185m >20 0 0 Copper ppm ASTM D5185m >0 0 0		hrs			-		
Oil Changed Sample Status Client Info N/A N/A CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >200 37 31 Chromium ppm ASTM D5185m >10 <1 0 Nickel ppm ASTM D5185m >10 0 0 Allwinium ppm ASTM D5185m 0 0 0 Lead ppm ASTM D5185m 20 0 0 Copper ppm ASTM D5185m >20 0 0 Lead ppm ASTM D5185m 20 0 0 Copper ppm ASTM D5185m 20 0 0 <td></td> <td></td> <td>Client Info</td> <td></td> <th>0</th> <td></td> <td></td>			Client Info		0		
Sample Status	-				N/A	N/A	
Water WC Method >0.2 NEG NEG					NORMAL	NORMAL	
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >200 37 31 Chromium ppm ASTM D5185m >10 -1 0 Nickel ppm ASTM D5185m >10 0 0 Titanium ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >50 0 0 Aluminum ppm ASTM D5185m >50 0 0 Lead ppm ASTM D5185m >50 0 0 Copper ppm ASTM D5185m >50 0 0 Vanadium ppm ASTM D5185m >10 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current histo	CONTAMINATION	J	method	limit/base	current	history1	history2
Iron	Water		WC Method	>0.2	NEG	NEG	
Chromium ppm ASTM D5185m >10 -1 0	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>200	37	31	
Nickel	Chromium		ASTM D5185m	>10	<1	0	
Titanium ppm ASTM D5185m 0 0 Silver ppm ASTM D5185m 0 0 Aluminum ppm ASTM D5185m >25 1 <1	Nickel			>10		0	
Silver	Titanium		ASTM D5185m		0	0	
Aluminum	Silver		ASTM D5185m		0	0	
Lead	Aluminum	• •	ASTM D5185m	>25	1	<1	
Copper ppm ASTM D5185m >200 <1 <1	Lead		ASTM D5185m	>50	0	0	
Tin	Copper	• •	ASTM D5185m	>200	<1	<1	
Vanadium ppm ASTM D5185m 0 0	• • • • • • • • • • • • • • • • • • • •		ASTM D5185m	>10	0	0	
Cadmium ppm ASTM D5185m 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 400 5 4 Barium ppm ASTM D5185m 200 0 0 Molybdenum ppm ASTM D5185m 12 <1	Vanadium	• •	ASTM D5185m		0	0	
Boron	Cadmium		ASTM D5185m		0	0	
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 12 <1 0 Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 12 8 2 Calcium ppm ASTM D5185m 150 43 22 Phosphorus ppm ASTM D5185m 1650 611 533 Zinc ppm ASTM D5185m 125 67 59 Sulfur ppm ASTM D5185m 22500 20501 20430 Sulfur ppm ASTM D5185m 22500 20501 20430 Sulfur ppm ASTM D5185m 22500 20501 20430 Sodium ppm ASTM D5185m >50 5 8 Sodium ppm ASTM D5185m >170 <1 2 Potassium ppm ASTM D5185m >170	Boron	ppm	ASTM D5185m	400	5	4	
Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 12 8 2 Calcium ppm ASTM D5185m 150 43 22 Phosphorus ppm ASTM D5185m 1650 611 533 Zinc ppm ASTM D5185m 125 67 59 Sulfur ppm ASTM D5185m 22500 20501 20430 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 5 8 Sodium ppm ASTM D5185m >170 <1	Barium	ppm	ASTM D5185m	200	0	0	
Magnesium ppm ASTM D5185m 12 8 2 Calcium ppm ASTM D5185m 150 43 22 Phosphorus ppm ASTM D5185m 1650 611 533 Zinc ppm ASTM D5185m 125 67 59 Sulfur ppm ASTM D5185m 22500 20501 20430 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 5 8 Sodium ppm ASTM D5185m >170 <1	Molybdenum	ppm	ASTM D5185m	12	<1	0	
Calcium ppm ASTM D5185m 150 43 22 Phosphorus ppm ASTM D5185m 1650 611 533 Zinc ppm ASTM D5185m 125 67 59 Sulfur ppm ASTM D5185m 22500 20501 20430 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 5 8 Sodium ppm ASTM D5185m >170 <1	Manganese	ppm	ASTM D5185m		0	<1	
Phosphorus ppm ASTM D5185m 1650 611 533 Zinc ppm ASTM D5185m 125 67 59 Sulfur ppm ASTM D5185m 22500 20501 20430 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 5 8 Sodium ppm ASTM D5185m >170 <1	Magnesium	ppm	ASTM D5185m	12	8	2	
Zinc ppm ASTM D5185m 125 67 59 Sulfur ppm ASTM D5185m 22500 20501 20430 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 5 8 Sodium ppm ASTM D5185m >170 <1 2 Potassium ppm ASTM D5185m >20 2 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual<	Calcium	ppm	ASTM D5185m	150	43	22	
Sulfur ppm ASTM D5185m 22500 20501 20430 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 5 8 Sodium ppm ASTM D5185m >170 <1	Phosphorus	ppm	ASTM D5185m	1650	611	533	
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 5 8 Sodium ppm ASTM D5185m >170 <1	Zinc	ppm	ASTM D5185m	125	67	59	
Silicon ppm ASTM D5185m >50 5 8 Sodium ppm ASTM D5185m >170 <1 2 Potassium ppm ASTM D5185m >20 2 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML Odor sc	Sulfur	ppm	ASTM D5185m	22500	20501	20430	
Sodium ppm ASTM D5185m >170 <1 2 Potassium ppm ASTM D5185m >20 2 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Free Water scalar *Visual NO.2 NEG NEG </td <td>CONTAMINANTS</td> <td></td> <td>method</td> <td>limit/base</td> <th>current</th> <td>history1</td> <td>history2</td>	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Free Water scalar *Visual NO.2 NEG NEG	Silicon	ppm	ASTM D5185m	>50	5	8	
VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Codor scalar *Visual NORML NORML NORML Free Water scalar *Visual NORML NEG NEG	Sodium	ppm	ASTM D5185m	>170	<1	2	
White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG Free Water scalar *Visual NEG NEG	Potassium	ppm	ASTM D5185m	>20	2	2	
Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG Free Water scalar *Visual NEG NEG	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG Free Water scalar *Visual NEG NEG	White Metal	scalar	*Visual	NONE	NONE	NONE	
Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG Free Water scalar *Visual NEG NEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG Free Water scalar *Visual NEG NEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG Free Water scalar *Visual NEG NEG	Silt	scalar	*Visual	NONE	NONE	NONE	
Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG Free Water scalar *Visual NEG NEG	Debris	scalar	*Visual	NONE	NONE	NONE	
Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG Free Water scalar *Visual NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Water scalar *Visual >0.2 NEG NEG Free Water scalar *Visual NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	
Free Water scalar *Visual NEG NEG	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
0.21:57) Pay: 1 Contact/Location: Pobort Wityneki INT110NE		scalar	*Visual				



OIL ANALYSIS REPORT









Laboratory Sample No.

: WC0858467 Lab Number : 06151357 Unique Number : 10981435 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Apr 2024

Tested : 18 Apr 2024 Diagnosed : 18 Apr 2024 - Wes Davis

Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

INTERSTATE WASTE-NEWARK

110 EVERGREEN AVE, BAY 3 NEWARK, NJ

US 07114

Contact: Robert Witynski RWitynski@interstatewaste.com

T: F: