

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id **22553** Component **Right Final Drive** Filuid **GEAR OIL SAE 80W90 (--- QTS)**

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

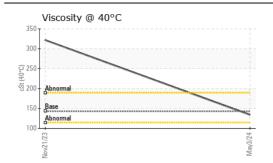
There is no indication of any contamination in the oil.

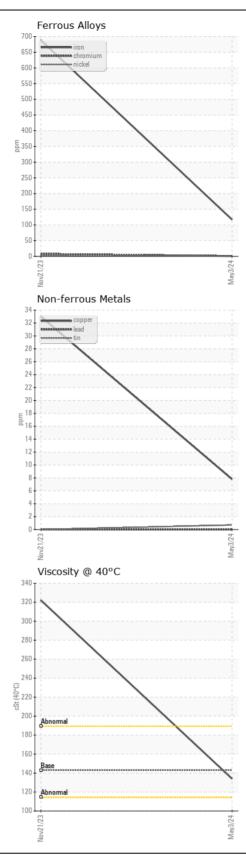
FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0905205	WC0857013	
Sample Date		Client Info		03 May 2024	21 Nov 2023	
Machine Age	hrs	Client Info		8054	7589	
Oil Age	hrs	Client Info		2000	1500	
Filter Age	hrs	Client Info		2000	1500	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	ABNORMAL	
			500	447	A 000	
Iron	ppm	ASTM D5185m	>500	117	▲ 688	
Chromium	ppm	ASTM D5185m	>10	<1	8	
Nickel	ppm	ASTM D5185m	>10	0	3	
Titanium	ppm	ASTM D5185m		<1	3	
Silver	ppm	ASTM D5185m	. OF	0	0	
Aluminum	ppm	ASTM D5185m	>25	6	5 3	
Lead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m	>50	8	33	
Tin	ppm	ASTM D5185m	>10	<1	0	
Vanadium White Metal	ppm	ASTM D5185m	NONE	0		
	scalar	*Visual		MODER	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>75	NONE 22	173	
Silicon	ppm	ASTM D5185m	>75	22	1 73	
Silicon Potassium	ppm	ASTM D5185m ASTM D5185m	>75 >20	22 4	▲ 173 25	
Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>75 >20 >0.2	22 4 NEG	 173 25 NEG 	
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>75 >20 >0.2 NONE	22 4 NEG MODER	 173 25 NEG NONE 	
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>75 >20 >0.2 NONE NONE	22 4 NEG MODER NONE	 173 25 NEG NONE NONE 	
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>75 >20 >0.2 NONE NONE NONE	22 4 NEG MODER NONE NONE	 173 25 NEG NONE NONE NONE 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>75 >20 >0.2 NONE NONE NONE NORML	22 4 NEG MODER NONE NONE NORML	 173 25 NEG NONE NONE NONE NONE NORML 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 >0.2 NONE NONE NORML NORML >0.2	22 4 NEG MODER NONE NONE NORML NORML NEG	 173 25 NEG NONE NONE NORML NORML NEG 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>75 >20 >0.2 NONE NONE NORML NORML >0.2	22 4 NEG MODER NONE NORE NORML NORML NEG	 173 25 NEG NONE NORML NORML NEG 7 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar gpm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>75 >20 >0.2 NONE NONE NORML >0.2 >170 400	22 4 NEG MODER NONE NORML NORML NEG <1 162	 173 25 NEG NONE NONE NORML NORML NEG 7 153 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>75 >20 >0.2 NONE NONE NORML NORML >0.2 >170 400 200	22 4 NEG MODER NONE NORML NORML NEG <1 162 1	 173 25 NEG NONE NONE NORML NORML NORML NEG 7 153 0 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >0.2 NONE NONE NORML >0.2 >170 400	22 4 NEG MODER NONE NORML NORML NEG <1 162 1 9	 173 25 NEG NONE NONE NORML NORML NEG 7 153 0 2 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >0.2 NONE NONE NORML >0.2 >170 400 200 12	22 4 NEG MODER NONE NORML NORML NEG <1 162 1 9 <1	 173 25 NEG NONE NONE NORML NORML NEG 7 153 0 2 5 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >0.2 NONE NONE NORML >0.2 >170 400 200 12	22 4 NEG MODER NONE NORML NORML NEG <1 162 1 162 1 9 <1 18	 173 25 NEG NONE NONE NORML NORML NORML 153 2 5 12 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >0.2 NONE NONE NORML NORML >0.2 >170 400 200 12	22 4 NEG MODER NONE NORML NORML NEG <1 162 1 162 1 9 <1 18 48	 173 25 NEG NONE NONE NORML NORML NEG 7 153 0 2 5 12 71 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar gpm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >75 >20 >0.2 NONE NORME NORML >0.2 >1700 400 200 12 12 150 1650 	22 4 NEG MODER NONE NORML NORML NEG <1 162 1 9 <1 18 48 48	 173 25 NEG NONE NONE NORML NORML NORML 153 0 2 5 12 71 1038 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >75 >20 >0.2 NONE NORML >0.2 >170 400 200 12 12 150 1650 125 	22 4 NEG MODER NONE NORML NORML NEG <1 162 1 9 <1 18 48 48 1647 28	 173 25 NEG NONE NONE NORML NORML NORML 153 2 5 12 71 38 	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Barium Barium Malybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >75 >20 >0.2 NONE NORME NORML >0.2 >1700 400 200 12 12 150 1650 	22 4 NEG MODER NONE NORML NORML NEG <1 162 1 9 <1 18 48 48	 173 25 NEG NONE NONE NORML NORML NORML 153 0 2 5 12 71 1038 	

Contact/Location: SCOTT SULLIVAN - MSCDUR



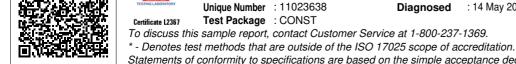


Received

Diagnosed

Tested

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 SULLIVAN EASTERN INC : 13 May 2024 2860 C SLATER RD : 14 May 2024 MORRISVILLE, NC : 14 May 2024 - Wes Davis US 27560 Contact: SCOTT SULLIVAN ssullivan@sullivaneastern.com T: (919)484-8993 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)484-2136



Report Id: MSCDUR [WUSCAR] 06177585 (Generated: 05/14/2024 17:28:05) Rev: 1

Laboratory

Sample No.

Lab Number : 06177585

: WC0905205

Contact/Location: SCOTT SULLIVAN - MSCDUR Page 2 of 2