

WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id **26146** Component **Right Final Drive** Fluid **GEAR OIL SAE 80W90 (--- QTS)**

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

Gear wear is indicated.

CONTAMINATION

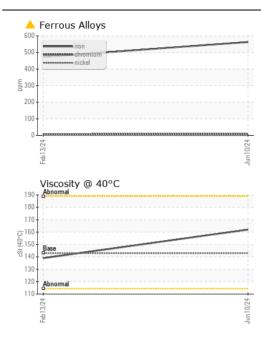
There is no indication of any contamination in the oil.

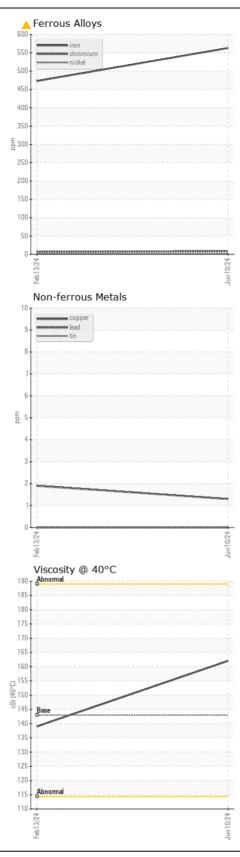
FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0924411	WC0846599	
Sample Date		Client Info		10 Jun 2024	13 Feb 2024	
Machine Age	hrs	Client Info		787	274	
Oil Age	hrs	Client Info		1000	500	
Filter Age	hrs	Client Info		1000	500	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Not Changd	
Sample Status				ABNORMAL	NORMAL	
		40TH DE105			470	
Iron	ppm	ASTM D5185m	>500	▲ 563 0	473	
Chromium	ppm	ASTM D5185m	>10	8	7	
Nickel	ppm	ASTM D5185m	>10	<1	2	
Titanium	ppm	ASTM D5185m		<1	1	
Silver	ppm	ASTM D5185m	0.5	0	0	
Aluminum	ppm	ASTM D5185m	>25	7	14	
Lead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m	>50	1	2	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		<1	<1	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>75	25	53	
Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>75 >20	25 12	53 9	
				-		
Potassium		ASTM D5185m	>20	12	9	
Potassium Water	ppm	ASTM D5185m WC Method	>20 >0.2	12 NEG	9 NEG	
Potassium Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >0.2 NONE	12 NEG MODER	9 NEG NONE	
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE	12 NEG MODER NONE	9 NEG NONE NONE	
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE	12 NEG MODER NONE NONE	9 NEG NONE NONE NONE	
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE NORML	12 NEG MODER NONE NONE NORML	9 NEG NONE NONE NONE NORML	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE NORML NORML >0.2	12 NEG MODER NONE NONE NORML NORML NEG	9 NEG NONE NONE NONE NORML NORML	
Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORML	12 NEG MODER NONE NONE NORML NORML	9 NEG NONE NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	12 NEG MODER NONE NORE NORML NEG 11	9 NEG NONE NONE NORML NORML NEG 7	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML >0.2 >170 400	12 NEG MODER NONE NORML NORML NEG 11 8	9 NEG NONE NONE NORML NORML NEG 7 5	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2 >170 400 200	12 NEG MODER NONE NORML NORML NEG 11 8 48	9 NEG NONE NONE NORML NORML NEG 7 5 47	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2 >170 400 200	12 NEG MODER NONE NORML NORML NEG 11 8 48 48	9 NEG NONE NONE NORML NORML NEG 7 5 47 2	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML >0.2 >170 400 200 12	12 NEG MODER NONE NORML NORML NEG 11 8 48 48 <1 7	9 NEG NONE NONE NORML NORML NEG 7 5 47 5 47	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2 >170 400 200 12	12 NEG MODER NONE NORML NORML NEG 11 8 48 48 <1 7 3	9 NEG NONE NONE NORML NORML NEG 7 5 47 <1 5 6	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NONE NORML NORML >0.2 >170 400 200 12 12 150 	12 NEG MODER NONE NORML NORML NEG 11 8 48 <1 7 3 22	9 NEG NONE NONE NORML NORML NEG 7 5 47 5 47 5 47 5 6 17	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML >0.2 >170 400 200 12 12 12 150 1650	12 NEG MODER NONE NORML NORML NEG 11 8 48 48 <1 7 3 22 1683	9 NEG NONE NONE NORML NORML NEG 7 5 47 5 47 5 6 117 169	

Contact/Location: SCOTT SULLIVAN - MSCDUR





SULLIVAN EASTERN INC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received : 19 Jun 2024 2860 C SLATER RD : WC0924411 Lab Number : 06215041 Tested MORRISVILLE, NC : 20 Jun 2024 Unique Number : 11087905 Diagnosed : 21 Jun 2024 - Sean Felton US 27560 Test Package : CONST Contact: SCOTT SULLIVAN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ssullivan@sullivaneastern.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)484-8993 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)484-2136

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