

Machine Id GROVE 7702 (S/N 232574)

Front Differential

GEAR OIL SAE 85W140 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

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		DC0034494	DC0023981	
Sample Date		Client Info		01 Apr 2024	18 Oct 2022	
Machine Age	hrs	Client Info		5230	4854	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	N/A	
Filter Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
Iron	ppm	ASTM D5185m	>500	29	100	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m	>10	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	2	<1	
Lead	ppm	ASTM D5185m	>25	<1	0	
Copper	ppm	ASTM D5185m	>100	3	36	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	nnm	ASTM D5185m	>75	3	22	
Potassium	ppm	ASTM D5185m	>20	3		
	nnm				16	
	ppm				16 NEG	
Water		WC Method	>.2	NEG	NEG	
Water Silt	scalar	WC Method *Visual	>.2 NONE	NEG MODER	NEG NONE	
Water Silt Debris	scalar scalar	WC Method *Visual *Visual	>.2 NONE NONE	NEG MODER NONE	NEG NONE NONE	
Water Silt Debris Sand/Dirt	scalar scalar scalar	WC Method *Visual *Visual *Visual	>.2 NONE NONE NONE	NEG MODER NONE NONE	NEG NONE NONE	
Water Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual	>.2 NONE NONE NONE NORML	NEG MODER NONE NONE NORML	NEG NONE NONE NORML	
Water Silt Debris Sand/Dirt	scalar scalar scalar	WC Method *Visual *Visual *Visual	>.2 NONE NONE NONE	NEG MODER NONE NONE	NEG NONE NONE	
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>.2 NONE NONE NORML NORML	NEG MODER NONE NONE NORML NORML NEG	NEG NONE NONE NORML NORML NEG	
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>.2 NONE NONE NORML NORML >.2	NEG MODER NONE NORE NORML NEG	NEG NONE NONE NORML NORML NEG 4	
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar scalar ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>.2 NONE NONE NORML NORML >.2	NEG MODER NONE NORML NORML NEG 1 61	NEG NONE NONE NORML NORML NEG 4	
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar scalar ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	 >.2 NONE NONE NORML >.2 400 200 	NEG MODER NONE NORML NORML NEG 1 61 0	NEG NONE NONE NORML NORML NEG 4 8 0	
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar scalar ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>.2 NONE NONE NORML NORML >.2	NEG MODER NONE NORML NORML NEG 1 61 61 61 2	NEG NONE NONE NORML NORML NEG 4 8 0 2	
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>.2 NONE NONE NORML NORML >.2 400 200 12	NEG MODER NONE NORML NORML NEG 1 61 0 <1 2	NEG NONE NONE NORML NORML NEG 4 8 0 2 8	
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >.2 NONE NORML NORML >.2 400 200 12 12 	NEG MODER NONE NORML NORML NEG 1 61 0 <1 2 3	NEG NONE NONE NORML NORML NEG 4 8 0 2 8 0 2 8 6	
Water Silt Debris Sand/Dirt Sand/Dirt Appearance Odor Emulsified Water Sodium Sodium Barium Barium Malybdenum Manganese Magnesium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>.2 NONE NONE NORML NORML >.2 400 200 12 12	NEG MODER NONE NORML NORML NEG 1 61 61 0 <1 2 3 60	NEG NONE NONE NORML NORML NEG 4 8 0 2 8 8 6 4 7	
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>.2 NONE NONE NORML NORML >.2 400 200 12 12 12 150 1650	NEG MODER NONE NORE NORML NEG 1 61 0 <1 2 3 60 1090	NEG NONE NONE NORML NORML NEG 4 8 0 2 8 6 6 47 269	
Water Silt Debris Sand/Dirt Sand/Dirt Appearance Odor Emulsified Water Sodium Sodium Barium Barium Malybdenum Magnesium Calcium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>.2 NONE NONE NORML NORML >.2 400 200 12 12	NEG MODER NONE NORML NORML NEG 1 61 61 0 <1 2 3 60	NEG NONE NONE NORML NORML NEG 4 8 0 2 8 8 6 4 7	

Contact/Location: TONY DAVIS - CRAABEMD

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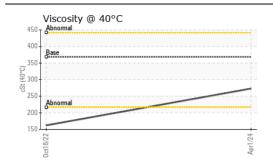
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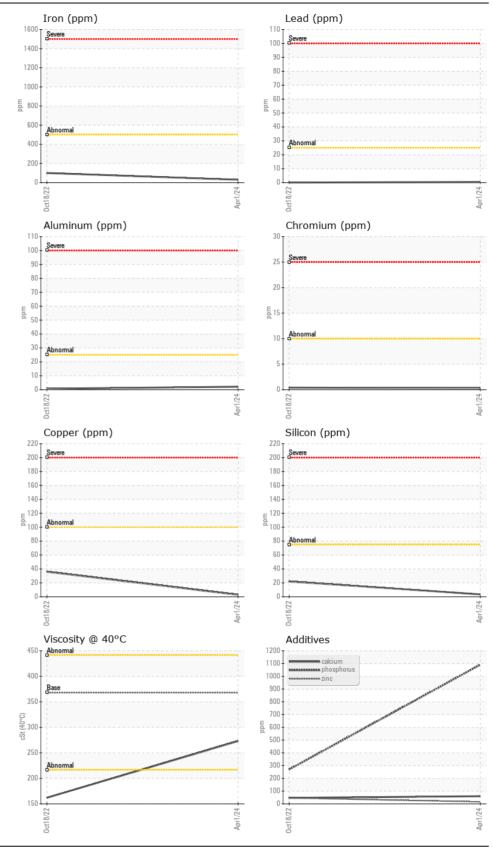
Visc @ 40°C

cSt

ASTM D445 368

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL





ABERDEEN PROVING GROUND Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : DC0034494 Received 6721 RARITON AVENUE : 23 Apr 2024 Lab Number : 06158040 ABERDEEN, MD Tested : 24 Apr 2024 Unique Number : 10993463 : 24 Apr 2024 - Wes Davis US 21005 Diagnosed Test Package : MOB 1 Contact: TONY DAVIS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. tdavis@vacraneworks.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (410)688-1725 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: TONY DAVIS - CRAABEMD Page 2 of 2