

WEAR SEVERE CONTAMINATION SEVERE FLUID CONDITION ATTENTION

Machine Id 26144 Component Left Final Drive Fluid ISO 68 (--- QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

CONTAMINATION

There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The water content is negligible.

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	Test	UOM	Method	Limit/Abn	С	urrent	Hi	story1	Hi	story2
	Sample Number		Client Info		WC0913666		WC0913650		WC0857032	
	Sample Date		Client Info		10 Apr 2024		25 Mar 2024		14 Nov 2023	
	Machine Age	hrs	Client Info		2429		2352		1854	
	Oil Age	hrs	Client Info		0		250		2000	
	Filter Age	hrs	Client Info		0		0		2000	
	Oil Changed		Client Info		Changed		Changed		Changed	
	Filter Changed		Client Info		Changed		N/A		Changed	
	Sample Status				SEVERE		SEVERE		SEVERE	
	Iron	ppm	ASTM D5185m	>500		3302		7708		12420
	Chromium	ppm	ASTM D5185m	>10		24		61		102
	Nickel	ppm	ASTM D5185m	>10		10		30		42
	Titanium	ppm	ASTM D5185m			15		48		35
	Silver	ppm	ASTM D5185m			0		0		0
	Aluminum	ppm	ASTM D5185m	>25		237		779		526
	Lead	ppm	ASTM D5185m	>25		<1		<1		<1
	Copper	ppm	ASTM D5185m	>50		3		6		11
	Tin	ppm	ASTM D5185m	>10		0		0		0
	Vanadium	ppm	ASTM D5185m			1		2		2
	White Metal	scalar	*Visual	NONE		NONE		NONE		NONE
	Yellow Metal	scalar	*Visual	NONE		NONE		NONE		NONE
	Silicon	maa	ASTM D5185m	>75		954		2749		2925
	Potassium	ppm	ASTM D5185m	>20		23		64		103
	Water	%	ASTM D6304	>0.2		0.161		0.325		
	ppm Water	maa	ASTM D6304	>2000		1610		3250		
	Silt	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
	Emulsified Water	scalar	*Visual	>0.2		0.2%		0.2%		NEG
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	Sodium	ppm	ASTM D5185m			16		45		40
	Boron	ppm	ASTM D5185m			166		144		208
	Barium	ppm	ASTM D5185m			2		0		4
	Molybdenum	ppm	ASTM D5185m			19		16		16
	Manganese	ppm	ASTM D5185m			28		61		100
	Magnesium	ppm	ASTM D5185m			75		40		23
	Calcium	ppm	ASTM D5185m			217		136		77
	Phosphorus	ppm	ASTM D5185m			1472		966		718
	Zinc	ppm	ASTM D5185m			162		36		27
	Sulfur	ppm	ASTM D5185m			22447		44753		53424
	Vice @ 10°C	cSt	ASTM D445	68.0		119		246		249

FLUID CONDITION

The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.

Contact/Location: SCOTT SULLIVAN - MSCDUR



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 SULLIVAN EASTERN INC Laboratory : WC0913666 : 15 Apr 2024 2860 C SLATER RD Sample No. Received MORRISVILLE, NC Lab Number : 06149133 Tested : 17 Apr 2024 : 17 Apr 2024 - Sean Felton US 27560 Unique Number : 10979211 Diagnosed Test Package : CONST (Additional Tests: KF) 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 F: (919)484-2136 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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