WEAR CONTAMINATION FLUID CONDITION **ABNORMAL ABNORMAL NORMAL**

Machine Id

JOHN DEERE CP690 1N0C690PHK4075724

Front Right Final Drive

{not provided} (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the	Sample Number		Client Info		JR0216813	JR0172340	
next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		07 Jul 2024	29 Jul 2023	
	Machine Age	hrs	Client Info		1264	1058	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	PQ		ASTM D8184	>1250	305	60	
The chromium level is abnormal. All other metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>750	271	81	
	Chromium	ppm	ASTM D5185m	>9	28	6	
	Nickel	ppm	ASTM D5185m	>10	2	<1	
	Titanium	ppm	ASTM D5185m		2	<1	
	Silver	ppm	ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m	>40	2	0	
	Lead	ppm	ASTM D5185m	>15	<1	<1	
	Copper	ppm	ASTM D5185m	>40	1	<1	
	Tin	ppm	ASTM D5185m	>10	0	0	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	MODER	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION Elemental level of silicon (Si) above normal indicating ingress of seal material.	Silicon	ppm	ASTM D5185m	>75	<u> </u>	<u> </u>	
	Potassium	ppm	ASTM D5185m	>20	3	1	
	Water		WC Method	>0.075	NEG	NEG	
	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	>0.075	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>51	<1	0	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		3	2	
	Barium	ppm	ASTM D5185m		<1	<1	
	Molybdenum	ppm	ASTM D5185m		2	<1	
	Manganese	ppm	ASTM D5185m		24	8	
	Magnesium	ppm	ASTM D5185m		8	3	
	Calcium	ppm	ASTM D5185m		483	133	
	Phosphorus	ppm	ASTM D5185m		288	276	
	Zinc	ppm	ASTM D5185m		33	16	
	Sulfur	ppm	ASTM D5185m		21009	25026	

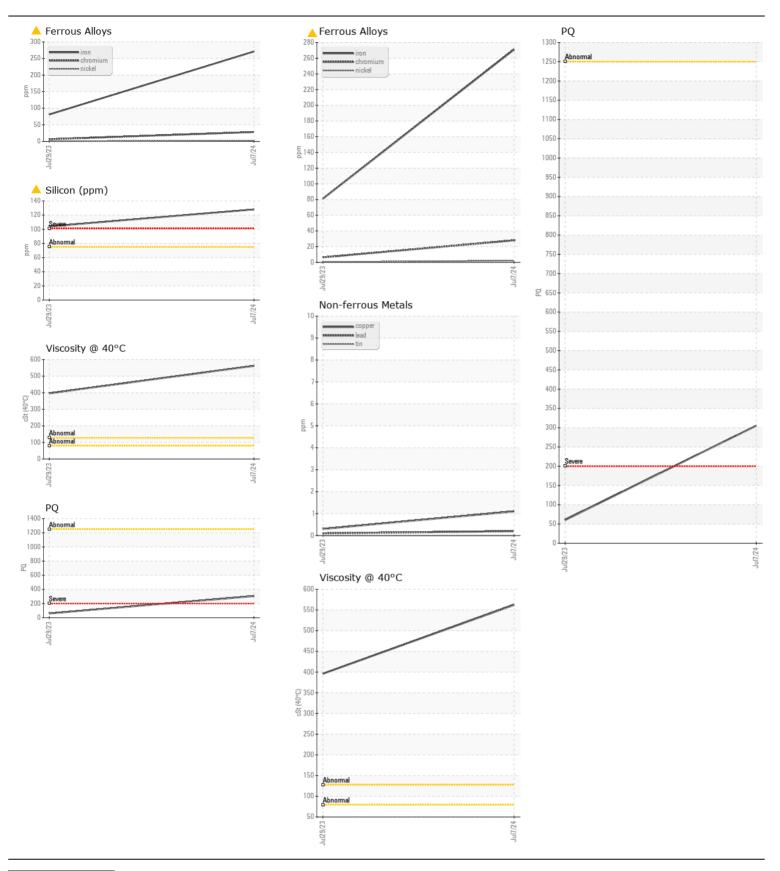
Visc @ 40°C

ASTM D445

cSt

396

562





Certificate L2367

Laboratory Sample No. Lab Number : 06230444 Unique Number: 11113937

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0216813

Received **Tested**

Diagnosed Test Package : CONST (Additional Tests: PQ)

: 08 Jul 2024 : 09 Jul 2024

: 10 Jul 2024 - Don Baldridge

JRE - WAKEFIELD 10489 GENERAL MAHONE HWY WAKEFIELD, VA US 23888

Contact: BILL ACKER backer@jamesriverequipment.com T: (757)899-3232

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)

F: (757)899-6464