WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

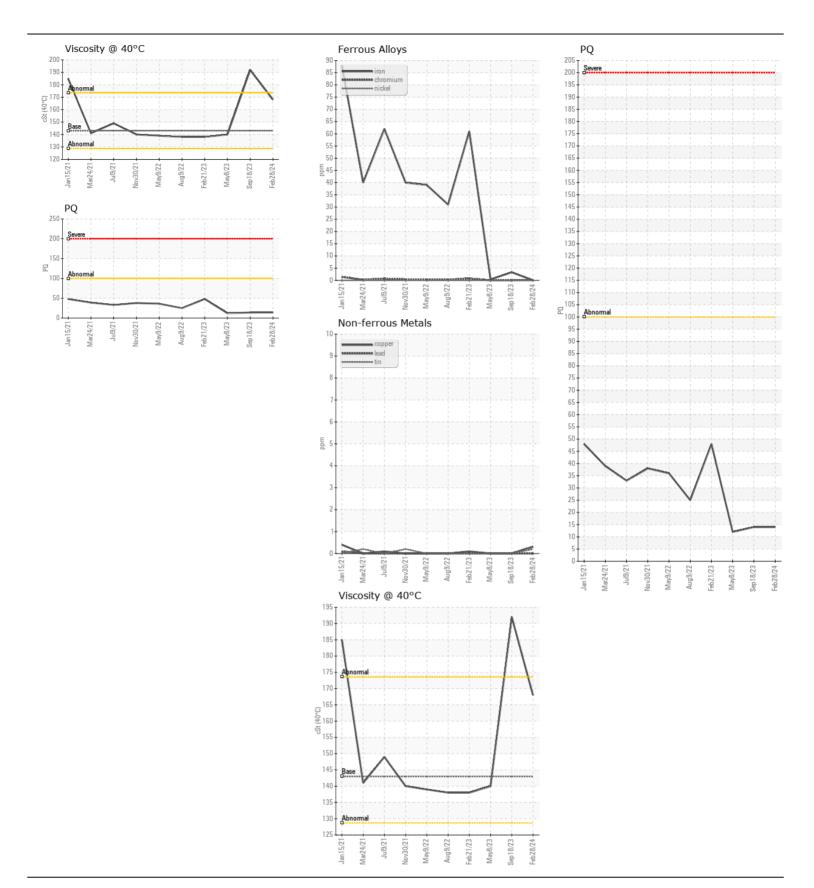
Machine Id

HITACHI 300LC 1FFDDP70VKF840558

Component Swing Drive Gear Case

GEAR OIL SAE 80W90 (--- GAL)

Sample Number	GEAR OIL SAE 80W90 (GAL)							
Sample Date Client Info Sep 2023 8 May 2025 8 M	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Info Ca Peba 2012 18-pa 2012 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465 5465	Resample at the next service interval to monitor.	Sample Number		Client Info		JR0203884	JR0178101	JR0161226
Cit Age hrs Citent Info 0 0 0 0 0 0 0 0 0		Sample Date		Client Info		28 Feb 2024	18 Sep 2023	08 May 2023
Filter Age		Machine Age	hrs	Client Info		6947	6140	5465
Pitter Changed Cilient Info Mort Changed Change		Oil Age	hrs	Client Info		807	4506	0
Filter Changed Sample Status		Filter Age	hrs	Client Info		0	0	0
Normation Norm				Client Info		Not Changd	Changed	N/A
PQ		Filter Changed		Client Info		N/A	Changed	N/A
Iron ppm ASTM DS185m >200 0 3 <1		Sample Status				NORMAL	NORMAL	NORMAL
Iron ppm ASTM DS185m >200 0 3 <1	WEAR	PQ		ASTM D8184		14	14	12
Chromium ppm ASTM D5185m >10 <1 0 0 0			ppm	ASTM D5185m	>200		3	<1
Nickel ppm ASTM D5185m >10 0 0 0 0 0 0 0 0 0		Chromium				<1	0	
Silver		Nickel		ASTM D5185m	>10	0	0	0
Aluminum ppm ASTM D5185m 0 <1 0 0 0 0 0 0 0 0 0		Titanium	ppm	ASTM D5185m		0	0	0
Lead		Silver	ppm	ASTM D5185m		0	0	0
Copper		Aluminum	ppm	ASTM D5185m		0	<1	0
Tin		Lead	ppm	ASTM D5185m		0	0	0
Vanadium ppm ASTM D5185m 0 <1 0 0 0 0 0 0 0 0 0		Copper	ppm	ASTM D5185m		<1	0	0
White Metal Yellow Metal Scalar Visual NONE NONE		Tin	ppm	ASTM D5185m		<1	0	0
Yellow Metal Scalar *Visual NONE NONE NONE NONE NONE NONE		Vanadium	ppm	ASTM D5185m		0	<1	0
Silicon ppm ASTM D5185m >20 0 0 0 1		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 0 0 1		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 0 0 1	CONTAMINATION	Silicon	ppm	ASTM D5185m		<1	1	<1
Water WC Method >0.2 NEG NEG NEG		Potassium	ppm	ASTM D5185m	>20	0	0	1
Debris Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NORML NORML		Water		WC Method	>0.2	NEG	NEG	NEG
Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML N		Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance Scalar *Visual NORML NORM		Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odor Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual >0.2 NEG NEG NEG NEG		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.2 NEG NEG NEG		Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium ppm ASTM D5185m >170 <1 2 0		Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron ppm ASTM D5185m 400 29 3 39		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Barium ppm ASTM D5185m 200 0 0 0 0 0 Molybdenum ppm ASTM D5185m 12 0 3 <1 Magnesium ppm ASTM D5185m 12 <1 0 0 3 <1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	<1	2	0
Barium ppm ASTM D5185m 200 0 0 0 Molybdenum ppm ASTM D5185m 12 0 3 <1	The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	400	29	3	39
Manganese ppm ASTM D5185m <1		Barium	ppm	ASTM D5185m	200	0	0	0
Magnesium ppm ASTM D5185m 12 <1		Molybdenum	ppm	ASTM D5185m	12	0	3	<1
Calcium ppm ASTM D5185m 150 6 18 3 Phosphorus ppm ASTM D5185m 1650 784 980 754 Zinc ppm ASTM D5185m 125 0 15 0 Sulfur ppm ASTM D5185m 22500 19187 25056 24937		Manganese	ppm	ASTM D5185m		<1	<1	0
Phosphorus ppm ASTM D5185m 1650 784 980 754 Zinc ppm ASTM D5185m 125 0 15 0 Sulfur ppm ASTM D5185m 22500 19187 25056 24937		Magnesium	ppm			<1	11	3
Zinc ppm ASTM D5185m 125 0 15 0 Sulfur ppm ASTM D5185m 22500 19187 25056 24937		Calcium	ppm	ASTM D5185m	150	6	18	3
Sulfur ppm ASTM D5185m 22500 19187 25056 24937		Phosphorus	ppm	ASTM D5185m	1650	784	980	754
			ppm	ASTM D5185m	125	0		
Visc @ 40°C cSt ASTM D445 143 \ 168 \ 192 140								
		Visc @ 40°C	cSt	ASTM D445	143	168	192	140







Laboratory Sample No.

Lab Number : 06106366

: JR0203884 Unique Number: 10909863

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

Received Tested Diagnosed

: 01 Mar 2024 : 03 Mar 2024

: 05 Mar 2024 - Sean Felton

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC

US 28269 Contact: CHARLOTTE SHOP

myoung@jamesriverequipment.com

T: (704)597-0211 F: (704)596-6198

Test Package : CONST (Additional Tests: PQ) Certificate L2367 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)