

Store 3 - Norton HITACHI ZX250LC EX20 (S/N 1FFDCB70EEE430316)

Right Propel Gearbox

GEAR OIL SAE 90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049312	LEC0014372	
Sample Date		Client Info		19 Jun 2024	21 Aug 2020	
Machine Age	hrs	Client Info		8011	6562	
Oil Age	hrs	Client Info		500	500	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Changed	
Filter Changed		Client Info		Changed	N/A	
Sample Status				SEVERE	SEVERE	
PQ		ASTM D8184		113	378	
Iron	ppm	ASTM D5185m	>200	A 2838	1 083	
Chromium	ppm	ASTM D5185m	>10	4 16	8	
Nickel	ppm	ASTM D5185m	>10	2	2	
Titanium	ppm	ASTM D5185m		11	8	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m		146	119	
Lead	ppm	ASTM D5185m		0	0	
Copper	ppm	ASTM D5185m		3	2	
Tin	ppm	ASTM D5185m		<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
White Metal	scalar	*Visual	NONE	NONE	MODER	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Ciliaan					• 047	
Shicon	ppm		00	A 549	▲ 347	
Potassium	ppm	ASTM DS185m	>20	39		
water	agalar	*\/ieuel	>0.2	NEG	NEG	
Sill	scalar	visual	NONE	NONE	NONE	
Depris	scalar	*\/ioual	NONE	NONE	NONE	
Sand/Dirt	scalar	visual	NORM	NONE	NOR	
Appearance	scalar	*\/ioual	NORIVIL	NORML	NORIVIL	
	scalar	visual	NORIVIL	NORML	NORIVIL	
Emuisined water	scalar	visual	>0.2	NEG	NEG	
Sodium	ppm	ASTM D5185m		7	4	
Boron	ppm	ASTM D5185m	400	119	33	
Barium	ppm	ASTM D5185m	200	0	0	
Molybdenum	ppm	ASTM D5185m	12	<1	0	
Manganese	ppm	ASTM D5185m		18	7	
Magnesium	ppm	ASTM D5185m	12	16	11	
Calcium	ppm	ASTM D5185m	150	31	30	
Phosphorus	ppm	ASTM D5185m	1650	1010	638	
Zinc	ppm	ASTM D5185m	125	1	6	
Sulfur	ppm	ASTM D5185m	22500	24663	18952	
Visc @ 40°C	cSt	ASTM D445	183	145	165	

Report Id: LANBRI [WUSCAR] 06227718 (Generated: 07/09/2024 12:10:53) Rev: 1

Contact/Location: JESSE WILBURN - LANBRI



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 LANE PIPELINE Sample No. Received 2946 E MAIN ST : LEC0049312 : 03 Jul 2024 \$8 Lab Number : 06227718 Tested BRIDGEPORT, WV : 05 Jul 2024 Unique Number : 11111211 : 06 Jul 2024 - Don Baldridge US 26330 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: JESSE WILBURN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jesseowilburn@gmail.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (740)440-0927 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: JESSE WILBURN - LANBRI Page 2 of 2