

Machine Id LIEBHERR A934C C-50 (S/N 060798-1419)

Swing Drive

KENDALL NS-MP HYPOID GEAR 80W90 (2 GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil 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.

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High concentration of visible metal present. Gear wear is indicated. Bearing and/or bushing wear is indicated. Generally an abnormal to severe rate of wear throughout the component.

CONTAMINATION

There is a high concentration of water present in the oil.

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

lest	UOM	Method	Limit/Abn	C	urrent	HI	story1	HI	story2
Sample Number		Client Info		W	C0920308	W(20809694	W	C0692188
Sample Date		Client Info		16	Apr 2024	08	Jul 2023	01	Feb 2023
Machine Age	hrs	Client Info		23	905	22	309	21	367
Oil Age	hrs	Client Info		25	30	94	.2	20	800
Filter Age	hrs	Client Info		0		0		0	
Oil Changed		Client Info		CI	nanged	Cł	nanged	CI	nanged
Filter Changed		Client Info		No	ot Changd	Cł	nanged	CI	nanged
Sample Status				SE	EVERE	SE	EVERE	SI	EVERE
Iron	ppm	ASTM D5185m	>1400		7050		2544		2428
Chromium	ppm	ASTM D5185m	>15		89		34		31
Nickel	ppm	ASTM D5185m	>5		64		11		13
Titanium	ppm	ASTM D5185m			<1		0		<1
Silver	ppm	ASTM D5185m			0		0		0
Aluminum	ppm	ASTM D5185m	>4		1		4		6
Lead	ppm	ASTM D5185m	>10		0		0		1
Copper	ppm	ASTM D5185m	>500		1791		458		366
Tin	ppm	ASTM D5185m	>20		50		6		8
Vanadium	ppm	ASTM D5185m			<1		0		<1
White Metal	scalar	*Visual	NONE		HEAVY		MODER		MODER
Yellow Metal	scalar	*Visual	NONE		NONE		NONE		NONE
Ciliaan			. 15						0
Botopoium	ppm	ASTM DE105m	>10		21		0		0
Polassium	o/		>20		1.04		0 0 2 1		1
waler	/0	ASTM D6204	>0.2		12400		0.321		2.07
	ppill	*Vieual					NONE	-	
Debris	scalar	*Vieual	NONE		NONE		NONE		LIGHT
Sand/Dirt	scalar	*Visual	NONE		NONE		NONE		NONE
	scalar	*Visual	NORMI		NORMI		NORMI		NORMI
Odor	scalar	*Visual	NORMI		NORMI		NORMI		NORMI
Emulsified Water	scalar	*Visual	>0.2		0.2%		0.2%		0.2%
Sodium	ppm	ASTM D5185m			0		0		0
Boron	ppm	ASTM D5185m			57		76		188
Barium	ppm	ASTM D5185m			<1		0		2
Molybdenum	ppm	ASTM D5185m			10		3		3
Manganese	ppm	ASTM D5185m			46		20		17
Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m			46 7		20 0		17 3
Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m			46 7 26		20 0 7		17 3 14
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m			46 7 26 679		20 0 7 973		17 3 14 1487
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m			46 7 26 679 59		20 0 7 973 38		17 3 14 1487 32
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m			46 7 26 679 59 50757		20 0 7 973 38 24993		17 3 14 1487 32 28462

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Contact/Location: BILL PITTL JR - FRADAY



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 FRANKLIN IRON & METAL CORP Laboratory Sample No. Received 1939 EAST 1ST ST : WC0920308 : 25 Apr 2024 Lab Number : 06160757 Tested DAYTON, OH : 26 Apr 2024 : 29 Apr 2024 - Don Baldridge US 45403 Unique Number : 10996180 Diagnosed Test Package : CONST (Additional Tests: KF) Contact: BILL PITTL JR Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. parts@frankliniron.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (937)253-8184 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Feb 12/22

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Feb12/22 Jul8/23

Contact/Location: BILL PITTL JR - FRADAY Page 2 of 2