

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area 11 TM 11 FORMING ROLL REDUCER

Component Gearbox

ROYAL PURPLE SYNERGY 90/220 (15 GAI

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

1L)								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		RP0037976	RP0023578	RP0016703		
Sample Date		Client Info		30 Jan 2024	05 May 2023	30 Mar 2022		
Machine Age	hrs	Client Info		0	0	0		
Oil Age	hrs	Client Info		0	0	0		
Oil Changed		Client Info		N/A	N/A	N/A		
Sample Status				NORMAL	NORMAL	SEVERE		
WEAR METALS		method	limit/base	current	history1	history2		
PQ		ASTM D8184		20	12			
Iron	ppm	ASTM D5185m	>200	18	21	17		
Chromium	nnm	ASTM D5185m	\15	-1	0	~1		

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		20	12	
Iron	ppm	ASTM D5185m	>200	18	21	17
Chromium	ppm	ASTM D5185m	>15	<1	0	<1
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	<1	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	<1	<1
Tin	ppm	ASTM D5185m	>25	<1	0	0
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ABBITIVES						
Boron	ppm	ASTM D5185m		25	23	24
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		14	15	25
Phosphorus	ppm	ASTM D5185m	370	358	399	468
Zinc	ppm	ASTM D5185m		37	24	39

CONTAMINANTS	,	method			Thistory	HISTOLYZ
Silicon	ppm	ASTM D5185m	>50	26	24	24
Sodium	ppm	ASTM D5185m		6	5	6
Potassium	ppm	ASTM D5185m	>20	1	<1	<1
Water	%	ASTM D6304	>0.2	0.013	0.010	0.011
ppm Water	ppm	ASTM D6304	>2000	137	103.7	110.9

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FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	8558	19361	145261
Particles >6µm		ASTM D7647	>5000	1048	552	27447
Particles >14μm		ASTM D7647	>640	79	7	<u> </u>
Particles >21µm		ASTM D7647	>160	16	1	<u>▲</u> 163
Particles >38μm		ASTM D7647	>40	1	0	10
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/17/13	21/16/10	2 4/22/17
	TION					h: -4

Acid Number (AN)

mg KOH/g ASTM D8045 1.33

1.47

1.13

Contact/Location: LARRY WEAVER - KIMMOBTM11



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: RP0037976 : 06075764 : 10857855

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 31 Jan 2024 Diagnosed

: 01 Feb 2024 Diagnostician : Don Baldridge

Test Package : IND 2 (Additional Tests: PQ, PrtCount) 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)

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