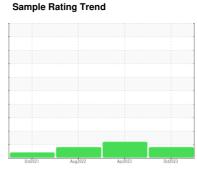


OIL ANALYSIS REPORT



ISO



88029 Component

Gearbox

SHELL MORLINA S4 B 220 (--- QTS)

DIAGNOSIS		œĸ	MC.		
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▲ Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

		Oct202	1 Aug2022	Apr2023 0	ct2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0815632	WC0760553	WC0652963
Sample Date		Client Info		18 Oct 2023	10 Apr 2023	19 Aug 2022
Machine Age	hrs	Client Info		1215	590	541
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	ATTENTION
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<1	2	2
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		34	1	9
Phosphorus	ppm	ASTM D5185m		54	57	8
Zinc	ppm	ASTM D5185m		0	1	4
Sulfur	ppm	ASTM D5185m		5383	6648	5611
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	<1	0
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	27047	45436	39410
Particles >6µm		ASTM D7647	>5000	2686	▲ 5756	2318
Particles >14µm		ASTM D7647	>640	45	113	29
Particles >21µm		ASTM D7647	>160	8	12	4
Particles >38µm		ASTM D7647	>40	0	2	0
Particles >71µm		ASTM D7647	>10	0	1	0

ISO 4406 (c) >21/19/16 **22/19/13**

Oil Cleanliness

23/20/14

22/18/12



OIL ANALYSIS REPORT







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

: WC0815632 : 06076361

Recieved Diagnosed

: 10858452 Diagnostician : Don Baldridge

: 31 Jan 2024

: 02 Feb 2024

Test Package : MOB 2 (Additional Tests: 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)

US 12414

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