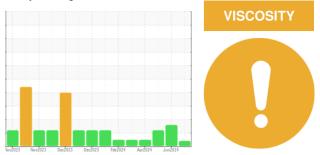


OIL ANALYSIS REPORT

Sample Rating Trend



Area **RIG** 565 **Machine Id 565-MP-02** Component **Gearbox** Fluid **GEAR OIL ISO 320 (--- GAL)**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

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

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

		method	iimii/base	current	riistory i	nistory2	
Sample Number		Client Info		KL0013627	KL0014480	KL0014287	
Sample Date		Client Info		04 Jul 2024	11 Jun 2024	09 May 2024	
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				ATTENTION	ATTENTION	ATTENTION	
CONTAMINATIO	N	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	7	4	4	
Chromium	ppm	ASTM D5185m	>10	<1	0	0	
Nickel	ppm	ASTM D5185m	>10	<1	<1	0	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m		0	0	<1	
Aluminum	ppm	ASTM D5185m	>25	2	<1	<1	
Lead	ppm	ASTM D5185m	>50	<1	0	0	
Copper	ppm	ASTM D5185m	>200	2	1	2	
Tin	ppm	ASTM D5185m	>10	<1	0	0	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		<1	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	50	<1	3	0	
Barium	ppm	ASTM D5185m	15	0	0	0	
Molybdenum	ppm	ASTM D5185m	15	<1	0	0	
Manganese	ppm	ASTM D5185m		<1	<1	0	
Magnesium	ppm	ASTM D5185m	50	4	4	<1	
Calcium	ppm	ASTM D5185m	50	0	14	8	
Phosphorus	ppm	ASTM D5185m	350	350	396	358	
Zinc	ppm	ASTM D5185m	100	2	9	8	
Sulfur	ppm	ASTM D5185m	12500	17099	22494	18886	
CONTAMINANTS		method	limit/base		history1	history2	
Silicon	ppm	ASTM D5185m	>50	11	10	8	
Sodium	ppm	ASTM D5185m		0	4	9	
Potassium	ppm	ASTM D5185m	>20	1	4	<1	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>20000	15567	24455	33377	
Particles >6µm		ASTM D7647		3051	5498	2517	
Particles >14µm		ASTM D7647	>640	109	75	37	
Particles >21µm		ASTM D7647	>160	18	6	6	
Particles >38µm		ASTM D7647	>40	1	0	0	
Particles >71µm		ASTM D7647		0	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/19/14	22/20/13	22/19/12	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.82	0.90	0.93	
i:35:14) Rev: 1					Submitted By: Mike Richardson		



·B 0.40

0.20

0.00

250

E 200

-8 150

5 100

50

0k 1/23

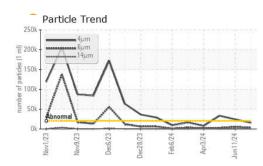
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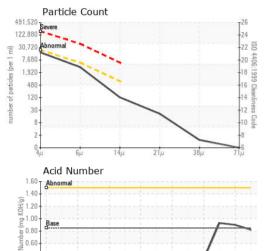
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Particle Trend

Dec6/23

OIL ANALYSIS REPORT



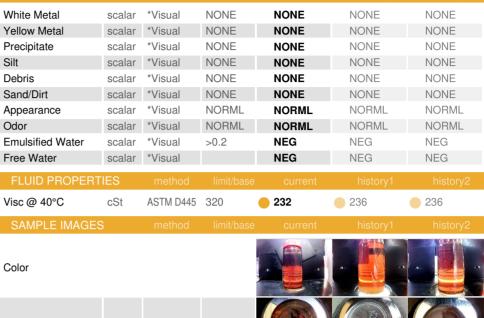


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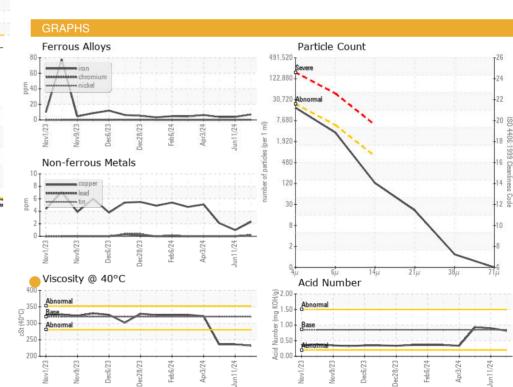
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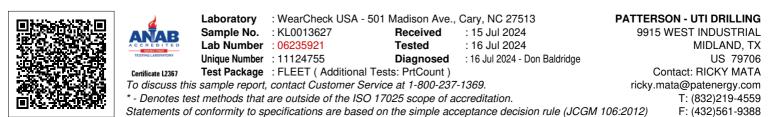
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Submitted By: Mike Richardson

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