

PROBLEM SUMMARY

Sample Rating Trend

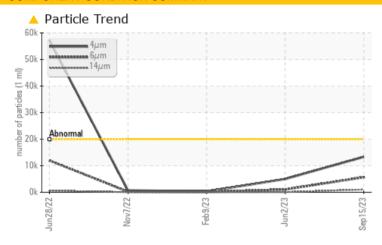
ISO

$\stackrel{\text{Machine Id}}{\text{PM 2}}$ (S/N MMV2-303)

Component Gearbox

ISO VG 220 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ATTENTION	NORMAL	NORMAL				
Particles >6µm	ASTM D7647	>5000	△ 5672	1049	104				
Particles >14μm	ASTM D7647	>640	1032	57	14				
Particles >21µm	ASTM D7647	>160	^ 268	11	3				
Oil Cleanliness	ISO 4406 (c)	>21/19/16	21/20/17	19/17/13	15/14/11				

Customer Id: CARSALNY Sample No.: USP227641 Lab Number: 05960694 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

02 Jun 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



09 Feb 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



07 Nov 2022 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



PM 2 (S/N MMV2-303) Component

Gearbox

ISO VG 220 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil.

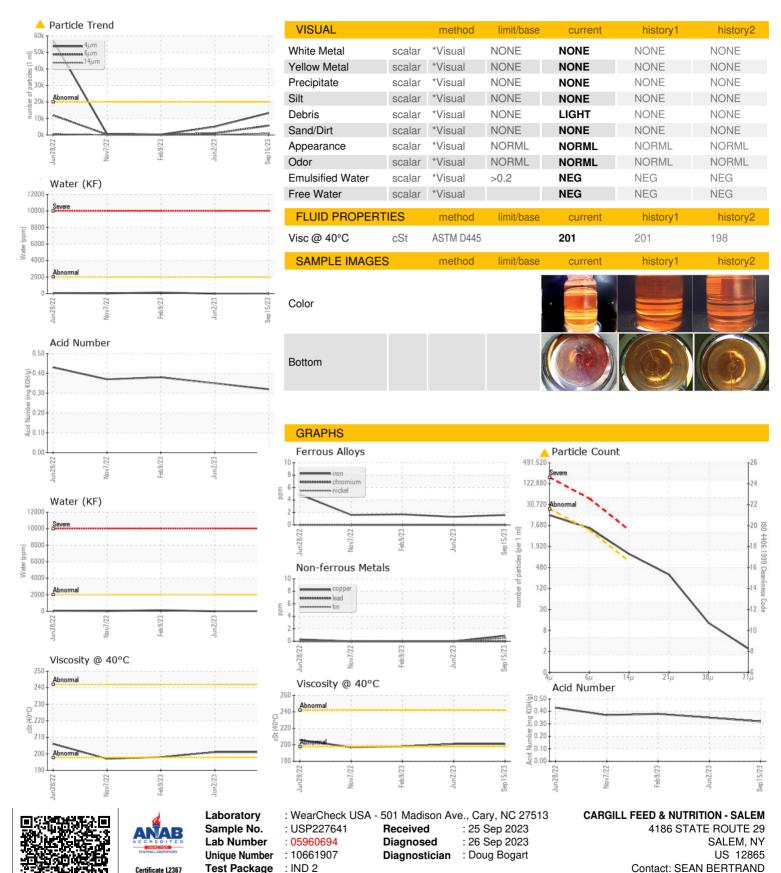
Fluid Condition

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

		Jun 2022	Nov2022	Feb2023 Jun2023	Sep 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP227641	USP227640	USP227643
Sample Date		Client Info		15 Sep 2023	02 Jun 2023	09 Feb 2023
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	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	2	1	2
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	2
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	0
Tin	ppm	ASTM D5185m	>25	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		2	0	0
Calcium	ppm	ASTM D5185m		2	<1	2
Phosphorus	ppm	ASTM D5185m		583	546	502
Zinc	ppm	ASTM D5185m		49	38	69
Sulfur	ppm	ASTM D5185m		736	673	603
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	14	12	19
Sodium	ppm	ASTM D5185m	700	2	0	1
Potassium	ppm	ASTM D5185m	>20	2	1	0
Water	%	ASTM D6304	>0.2	0.001	0.00	0.013
ppm Water	ppm	ASTM D6304	>2000	1.1	0.00	130.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	13323	4991	303
Particles >6µm		ASTM D7647	>5000	△ 5672	1049	104
Particles >14µm		ASTM D7647	>640	<u>▲</u> 1032	57	14
Particles >21µm		ASTM D7647	>160	<u>△</u> 268	11	3
Particles >38µm		ASTM D7647	>40	11	1	0
Particles >71µm		ASTM D7647	>10	2	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>^</u> 21/20/17	19/17/13	15/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.32	0.35	0.38
					0.00	0.00



OIL ANALYSIS REPORT





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)

Contact/Location: SEAN BERTRAND - CARSALNY

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