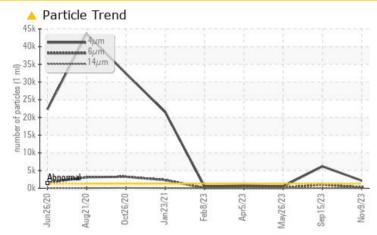


PROBLEM SUMMARY

Area **PASTA [98542816]** Machine Id **RAILCAR UNLOAD WEST** Component

Blower Fluid GEAR OIL ISO 320 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC [®]	TEST RESULTS			
Sample Status		ATTENTION	ABNORMAL	ATTENTION
Particles >4µm	ASTM D7647 >	1300 🔺 2148	<u> </u>	543
Oil Cleanliness	ISO 4406 (c) >	17/15/13 🔺 18/15/10	2 0/17/13	16/14/10

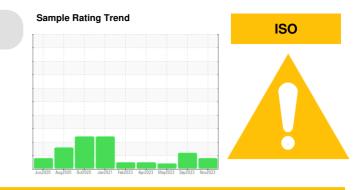
Customer Id: KRASPRMO Sample No.: PCA0111842 Lab Number: 06013991 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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



RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

15 Sep 2023 Diag: Don Baldridge



The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

26 May 2023 Diag: Don Baldridge



20 May 2020 Diag. Don Dalanag

The oil change at the time of sampling has been noted. 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. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

05 Apr 2023 Diag: Don Baldridge

NORMAL



The oil change at the time of sampling has been noted. 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. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.





view report

Report Id: KRASPRMO [WUSCAR] 06013991 (Generated: 11/24/2023 10:24:19) Rev: 1



OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area **PASTA [98542816]** Machine Id **RAILCAR UNLOAD WEST** Component

Blower Fluid

GEAR OIL ISO 320 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. 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.

			2020 Oct2020 Jan2021	Feb2023 Apr2023 May2023 Sep20		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0111842	PCA0099586	PCA0099597
Sample Date		Client Info		09 Nov 2023	15 Sep 2023	26 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	ATTENTION
CONTAMINAT	TION	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	5	15	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	0
_ead	ppm	ASTM D5185m	>20	- <1	0	0
Copper	ppm	ASTM D5185m		<1	0	0
Tin	ppm		>20	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m	50	0	0	0
Barium	ppm	ASTM D5185m	15	4	0	0
Volybdenum	ppm	ASTM D5185m	15	<1	0	0
Vanganese	ppm	ASTM D5185m	10	<1	0	0
Vagnesium	ppm	ASTM D5185m	50	0	0	0
Calcium	ppm	ASTM D5185m	50	0	<1	0
Phosphorus		ASTM D5185m	350	528	520	492
Zinc	ppm			526 0	0	492 0
Sulfur	ppm	ASTM D5185m ASTM D5185m	100 12500	1891	2361	1620
	ppm					
CONTAMINAN	NIS	method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>15	5	5	<1
Sodium	ppm	ASTM D5185m		0	2	0
Potassium	ppm	ASTM D5185m		<1	<1	0
FLUID CLEAN	LINESS	method	limit/base		history1	history2
Particles >4µm		ASTM D7647	>1300	<u> </u>	6 189	543
Particles >6µm		ASTM D7647	>320	255	<u>▲</u> 1062	112
Particles >14µm		ASTM D7647	>80	9	43	9
Particles >21µm		ASTM D7647	>20	3	10	2
Particles >38µm		ASTM D7647	>4	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/15/13	A 18/15/10	2 0/17/13	16/14/10
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.22	0.35	0.41
:24:20) Rev: 1			Co	ontact/Location:	Service Manage	r - KRASPRM

Report Id: KRASPRMO [WUSCAR] 06013991 (Generated: 11/24/2023 10:24:20) Rev: 1

Contact/Location: Service Manager - KRASPRMO

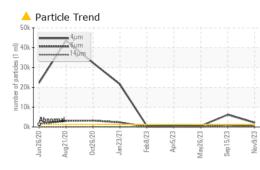


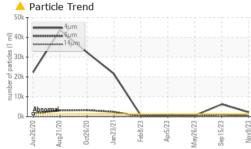
Acid Number

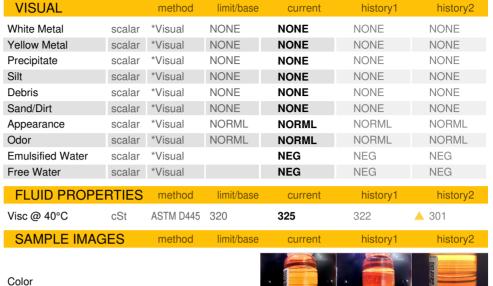
1 60 -Abnorma

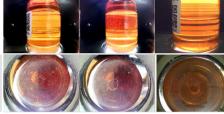
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OIL ANALYSIS REPORT









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