

OIL ANALYSIS REPORT

Patoka [Patoka] Oil - Port Reduction Gear Component

Port Reduction Gear Fluid

{not provided} (35 GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

A Wear

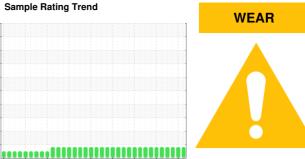
The copper level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

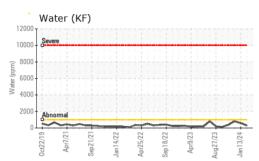
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

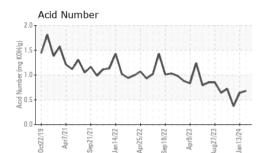


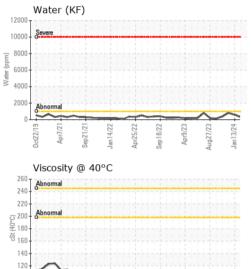
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0805575	WC0859903	WC0804864
Sample Date		Client Info		26 Feb 2024	13 Jan 2024	18 Nov 2023
Machine Age	hrs	Client Info		0	42510	41430
Oil Age	hrs	Client Info		0	8796	7716
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	13	11	11
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	0
Lead	ppm	ASTM D5185m	>100	2	4	2
Copper	ppm	ASTM D5185m	>50	<u> </u>	A 303	A 300
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
Oddinium	ppin			U	0	0
ADDITIVES	ppin	method	limit/base	current	history1	history2
	ppm		limit/base	-	-	-
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 16	history1 16	history2 15
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 16 0	history1 16 0	history2 15 0 50 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 16 0 46	history1 16 0 48	history2 15 0 50
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 16 0 46 0	history1 16 0 48 <1	history2 15 0 50 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 16 0 46 0 570	history1 16 0 48 <1 596	history2 15 0 50 0 636
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 16 0 46 0 570 1112	history1 16 0 48 <1 596 1115	history2 15 0 50 0 636 1213
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 16 0 46 0 570 1112 814	history1 16 0 48 <1 596 1115 870	history2 15 0 50 0 636 1213 919
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 16 0 46 0 570 1112 814 900	history1 16 0 48 <1 596 11115 870 976	history2 15 0 50 0 636 1213 919 1124
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		current 16 0 46 0 570 1112 814 900 2797	history1 16 0 48 <1 596 1115 870 976 3013 history1 3	history2 15 0 50 0 636 1213 919 1124 3055 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 16 0 46 0 570 1112 814 900 2797 current	history1 16 0 48 <1 596 1115 870 976 3013 history1	history2 15 0 50 0 636 1213 919 1124 3055 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base	current 16 0 46 0 570 1112 814 900 2797 current 3	history1 16 0 48 <1 596 1115 870 976 3013 history1 3	history2 15 0 50 0 636 1213 919 1124 3055 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base >50 >20	current 16 0 46 0 570 1112 814 900 2797 current 3 3 3	history1 16 0 48 <1 596 1115 870 976 3013 history1 3 3 3	history2 15 0 50 0 636 1213 919 1124 3055 history2 2 2 2 2 2 2 2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >50 >20	current 16 0 46 0 570 1112 814 900 2797 current 3 0	history1 16 0 48 <1 596 1115 870 976 3013 history1 3 13 1	history2 15 0 50 0 636 1213 919 1124 3055 history2 2 2 0 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm 1 ppm 2 ppm 2 ppm 2 ppm 4 ppm 4	method ASTM D5185m ASTM D5185m	limit/base >50 >20 >0.1	current 16 0 46 0 570 1112 814 900 2797 current 3 0 0	history1 16 0 48 <1 596 1115 870 976 3013 history1 3 1 0.057	history2 15 0 50 0 636 1213 919 1124 3055 history2 2 2 0 0 0.081



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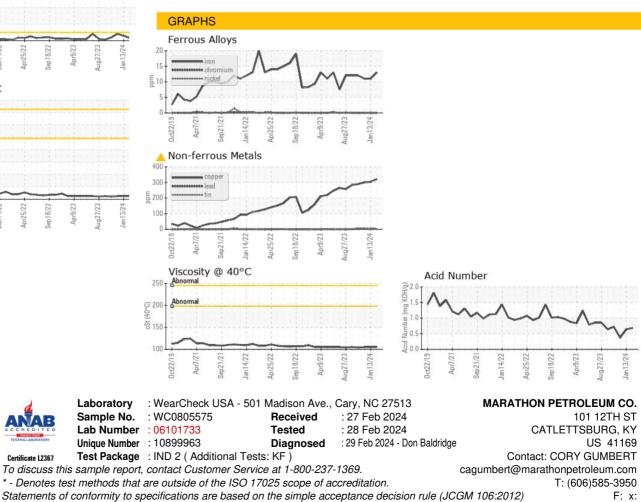
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		105	105	105
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				- 6		
Dettern						

Bottom



Certificate L2367

Sep 18/22 nr9/23