

OIL ANALYSIS REPORT

Particles >71µm

Sample Rating Trend

NORMAL

[98575006] KR-GR-003071 - DUMPER 3A (S/N GRIND A - 11513012)

Component **Hydraulic System**

AW HYDRAULIC OIL ISO 68 (--- 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

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



2020 AugŽ020 JanŽ021 DieŽ021 JanŽ022 Nov2022 JanŽ023								
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		PCA0108230	PCA0091777	PCA0103753		
Sample Date		Client Info		30 Oct 2023	25 Oct 2023	05 Sep 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				NORMAL	NORMAL	ABNORMAL		
WEAR METAL	.S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>20	<1	0	0		
Chromium	ppm	ASTM D5185m	>20	<1	0	0		
Nickel	ppm	ASTM D5185m	>20	0	0	0		
Titanium	ppm	ASTM D5185m		0	0	0		
Silver	ppm	ASTM D5185m		0	0	0		
Aluminum	ppm	ASTM D5185m	>20	<1	<1	<1		
Lead	ppm	ASTM D5185m	>20	0	<1	0		
Copper	ppm	ASTM D5185m	>20	<1	0	0		
Tin	ppm	ASTM D5185m	>20	<1	<1	0		
Vanadium	ppm	ASTM D5185m		0	0	<1		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	5	0	0	0		
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m	5 5	0 20	0	0		
				-				
Barium	ppm	ASTM D5185m	5	20	0	0		
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	5	20 <1	0	0		
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	5	20 <1 0	0 0 <1	0 0 0		
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25	20 <1 0 0	0 0 <1 10	0 0 0 0		
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200	20 <1 0 0 0	0 0 <1 10 0	0 0 0 0 0		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300	20 <1 0 0 0 454	0 0 <1 10 0 440	0 0 0 0 0 448		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300 370	20 <1 0 0 0 454 22	0 0 <1 10 0 440 0	0 0 0 0 0 448 0		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500	20 <1 0 0 0 454 22 522	0 0 <1 10 0 440 0 498	0 0 0 0 0 448 0 514		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500	20 <1 0 0 454 22 522 current	0 0 <1 10 0 440 0 498 history1	0 0 0 0 0 448 0 514 history2		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 limit/base >15	20 <1 0 0 454 22 522 current 2	0 0 <1 10 0 440 0 498 history1 2	0 0 0 0 0 448 0 514 history2 1		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ITS	ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 limit/base >15	20 <1 0 0 454 22 522 current 2 3	0 0 <1 10 0 440 0 498 history1 2 3	0 0 0 0 0 448 0 514 history2 1 3		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ITS	ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 limit/base >15 >20	20 <1 0 0 454 22 522 <u>current</u> 2 3 0	0 0 <1 10 0 440 0 498 history1 2 3 <1	0 0 0 0 0 448 0 514 history2 1 3 0		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEAN	ppm ppm ppm ppm ppm ppm ppm ppm ITS	ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 limit/base >15 >20 limit/base	20 <1 0 0 454 22 522 current 2 3 0 current	0 0 <1 10 0 440 0 498 history1 2 3 <1 history1	0 0 0 0 0 448 0 514 history2 1 3 0 0 history2		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEAN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ITS	ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 2500 2500 2500 >15 >20 1imit/base >20	20 <1 0 0 454 22 522 current 2 3 0 current 5849	0 0 <1 10 0 440 0 498 history1 2 3 <1 +istory1 	0 0 0 0 448 0 514 history2 1 3 0 0 history2		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEAN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ITS	ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 limit/base >15 >20 limit/base >20 >10000 >2500 >2500	20 <1 0 0 454 22 522 <u>current</u> 2 3 0 <u>current</u> 5849 1064	0 0 <1 10 0 440 0 498 history1 2 3 <1 2 3 <1 	0 0 0 0 448 0 514 history2 1 3 0 0 history2 ∧ 30310 ▲ 30310		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEAN Particles >4µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ITS	ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 limit/base >15 >20 limit/base >20 >10000 >2500 >2500	20 <1 0 0 454 22 522 <u>current</u> 2 3 0 <u>current</u> 5849 1064 51	0 0 <1 10 0 440 0 498 history1 2 3 <1 2 3 <1 history1	0 0 0 0 0 448 0 514 1 3 0 0 history2 1 3 3 0 0 history2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		

Oil Cleanliness ISO 4406 (c) >20/18/16 20/17/13 A 22/22/21 FLUID DEGRADATION method 0.57 0.24 0.19 Acid Number (AN) mg KOH/g ASTM D8045

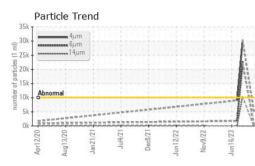
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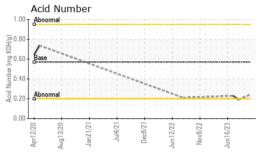
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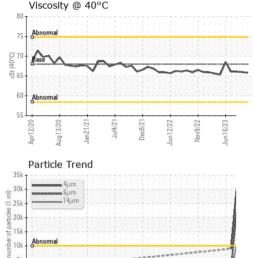
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OIL ANALYSIS REPORT





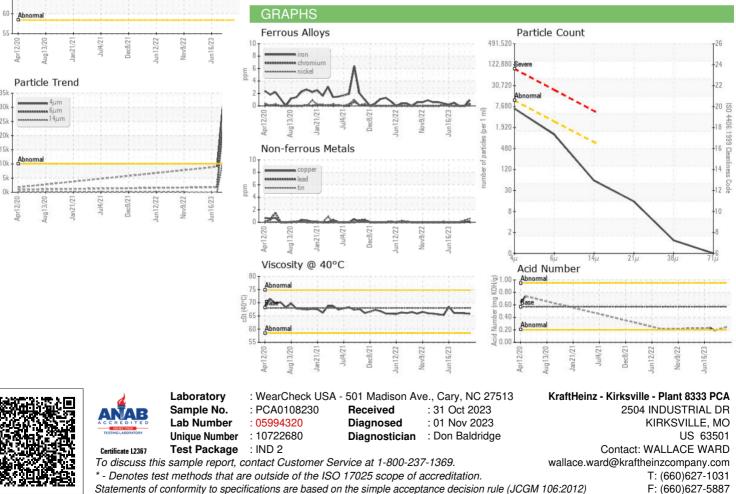


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Inr12/26

ua13/20

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	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	🔺 HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	65.8	66.0	66.1
SAMPLE IMAG	iES	method	limit/base	current	history1	history2
Color						
Bottom				()	(\bigcirc)	



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: WALLACE WARD - KRAKIR