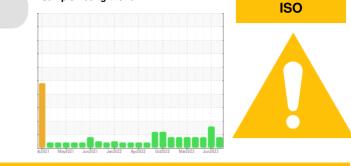


GUAY SON/Yavaros [CONHER] Pacifico industrial - PISA2 Hidráulico Component

Hydraulic System

QUAKER STATE DUPLEX AW HYDRAULIC 68 (1200 LTR)



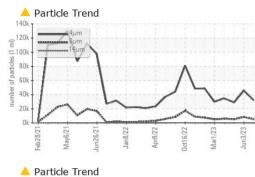
Sample Rating Trend

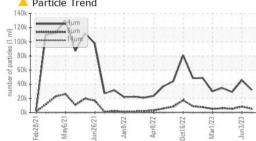
Characterization action is recommended at this time Age Client Info 0 3 Jul 2023 0	DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
ample at the next service interval to monitor. ar 33 32 31 opponent wear rates are normal. opponent wear rates are normal. Not Changed Not Changed Silent Info S3 32 31 An ample Status I Immuno of all (particulates < 14)	Recommendation	Sample Number		Client Info		KL0012396	KL0012375	KL0012350
ar Containing math Contain intege math Contain intege Math Containing Math Containing Math Containing Math Containing Math	o corrective action is recommended at this time.	Sample Date		Client Info		08 Jul 2023	03 Jun 2023	26 Apr 2023
contamination clinchanged Client Info Not Changed Not Changed ABNORMAL ABNORM	esample at the next service interval to monitor.	Machine Age	mths	Client Info		33	32	31
Sample Status ABNORMAL ABNORMAL ABNORMAL re's a kiph amount of silt (particulates < 14)	ear	Oil Age	mths	Client Info		33	32	31
re is a high amount of sill (particulates < 14 oron in size) present in the oil. A O condition AN level is acceptable for this fluid. The dition of the oil is suitable for further service. Nickel ppm ASTM 05185m >20 6 5 5 5 Chromium ppm ASTM 05185m >10 0 0 0 -11 Titanium ppm ASTM 05185m >10 0 0 0 -11 Titanium ppm ASTM 05185m >10 0 0 -11 0 0 0 0 Auminum ppm ASTM 05185m >10 0 0 -11 0 0 0 0 Auminum ppm ASTM 05185m >10 0 0 0 -11 0 0 0 0 Auminum ppm ASTM 05185m >10 0 0 0 0 Copper ppm ASTM 05185m >10 0 0 0 0 Copper ppm ASTM 05185m >10 0 0 0 0 Copper ppm ASTM 05185m >10 0 0 0 0 ADDITIVES method imitbase current Nistory1 Nistory2 Noron ppm ASTM 05185m 0 0 0 0 0 ADDITIVES method imitbase 0 0 0 ADDITIVES method imitbase 0 0 0 ADDITIVES method imitbase 0 0 ADDITIVES 0 0 ADDITIVES method imitbase 0 0 ADDITIVES 0 0 ADDITIVES 0 0 ADDITIVES 0 0 ADDITIVES 0 0 ADDITIVES 0 0 ADDITIVES 0	component wear rates are normal.	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
once in size) present in the oil. Processed in the oil.<	Contamination	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Chromium ppm ASTM Distsin >10 0 <1 All level is acceptable for further service. Nickel ppm ASTM Distsin >10 0 <1	ere is a high amount of silt (particulates < 14 crons in size) present in the oil.	WEAR METALS		method	limit/base	current	history1	history2
AN level is acceptable for this fluid. The dition of the oil is suitable for further service. Chromium ppm ASTM 05156m >10 0 <1	uid Condition	Iron	ppm	ASTM D5185m	>20	6	5	5
dition of the oil is suitable for further service. Nickel pm ASTM D518m >10 0 0 <1		Chromium	ppm	ASTM D5185m	>10	0	0	<1
Silver ppm ASTM 05185n >10 0 <10 <11 0 Aluminum ppm ASTM 05185n >10 1 0 <1	ndition of the oil is suitable for further service.	Nickel	ppm	ASTM D5185m	>10	0	0	<1
Aluminum ppm ASTM D5155m >1.0 <1 0 <1 0 Lead ppm ASTM D5155m 7.5 1 <1		Titanium	ppm	ASTM D5185m		0	<1	0
Lead ppm ASTM D5185m >10 <1 <1 <1 Copper ppm ASTM D5185m >75 1 <1		Silver	ppm	ASTM D5185m		0	0	0
Copper ppm ASTM D5185m >75 1 <1 <1 <1 Tin ppm ASTM D5185m >10 0 0 <1		Aluminum	ppm	ASTM D5185m	>10	0	<1	0
Tin ppm ASTM D5185m >10 0 0 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Barium ppm ASTM D5185m 0.0 2 0 0 Magnesium ppm ASTM D5185m 0.0 2 0 0 Magnesium ppm ASTM D5185m 0.1 <1		Lead	ppm	ASTM D5185m	>10	<1	0	<1
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 4.0 0 0 0 Barium ppm ASTM D5185m 0.0 2 0 0 Molydofenum ppm ASTM D5185m 0.0 0 0 0 Magnesse ppm ASTM D5185m 0.1 <1		Copper	ppm	ASTM D5185m	>75	1	<1	<1
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 0 0 Barium ppm ASTM D5185m 0.0 2 0 0 0 Molybdenum ppm ASTM D5185m 0.0 2 0 0 0 Magnese ppm ASTM D5185m 0.0 2 0 0 3 Calcium ppm ASTM D5185m 0.0 2 172 172 172 173 190 Suffur ppm ASTM D5185m 2434 1704 1743 1806 Suffur ppm ASTM D5185m >20 <1			ppm	ASTM D5185m	>10	0	0	<1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0.0 0 0 0 Barium ppm ASTM D5185m 0.0 2 0 0 Molybdenum ppm ASTM D5185m 0.0 0 0 0 Manganesie ppm ASTM D5185m 0.1 <1		Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 4.0 0 0 0 Barium ppm ASTM D5185m 0.0 2 0 0 Molybdenum ppm ASTM D5185m 0.0 0 0 0 Manganese ppm ASTM D5185m 0.1 <1 <1 <1 Magnesium ppm ASTM D5185m 0.1 <1 0 3 Calcium ppm ASTM D5185m 0.1 <1 0 3 Zinc ppm ASTM D5185m 242 175 172 178 Zinc ppm ASTM D5185m 2434 1704 1743 1806 Sulfur ppm ASTM D5185m 20 <1 <1 <1 Sodium ppm ASTM D5185m 20 <1 <1 <1 Sodium ppm ASTM D5185m 20 <1 <1 <1 Sodium ppm ASTM D5185m >20 <1 <1 <1 Sodium ppm ASTM D5185m >20 <1		Cadmium	ppm	ASTM D5185m		0	0	0
Barium pm ASTM D5185m 0.0 2 0 0 Molybdenum pm ASTM D5185m 0.0 0 0 0 Manganese pm ASTM D5185m 0.1 <1 <1 <1 Magnesium ppm ASTM D5185m 0.1 <1 0 3 Calcium ppm ASTM D5185m 54 27 25 26 Phosphorus ppm ASTM D5185m 54 27 172 178 Zinc ppm ASTM D5185m 2434 1704 1743 1806 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 <1 <1 <1 Sodium ppm ASTM D5185m >20 <1 <1 <1 Sodium ppm ASTM D5185m >20 <1 <1 <1 Sodium ppm ASTM D5185m >20 <1 0 2 2087 FLUID CLEANLINESS method limit		ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0.0 0 0 Maganese ppm ASTM D5185m < <1 <1 <1 Magnesium ppm ASTM D5185m 0.1 <1 0 3 Calcium ppm ASTM D5185m 0.1 <1 0 3 Calcium ppm ASTM D5185m 54 27 25 26 Phosphorus ppm ASTM D5185m 272 175 172 178 190 Sulfur ppm ASTM D5185m 273 196 1743 1806 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 <1 <1 <1 Sodium ppm ASTM D5185m >20 <1 0 2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 5392 48433 5368 Particles >6µm ASTM D7647 >10		Boron	ppm	ASTM D5185m	4.0	0	0	0
Marganesse ppm ASTM D5185m		Barium	ppm	ASTM D5185m	0.0	2	0	0
Magnesium ppm ASTM D5185m 0.1 <1 0 3 Calcium ppm ASTM D5185m 54 27 25 26 Phosphorus ppm ASTM D5185m 272 175 172 178 Zinc ppm ASTM D5185m 257 196 178 190 Sulfur ppm ASTM D5185m 2434 1704 1743 1806 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 <1		Molybdenum	ppm	ASTM D5185m	0.0	0	0	0
Calcium ppm ASTM D5185m 54 27 25 26 Phosphorus ppm ASTM D5185m 272 175 172 178 Zinc ppm ASTM D5185m 357 196 178 190 Sulfur ppm ASTM D5185m 2434 1704 1743 1806 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 <1		Manganese	ppm	ASTM D5185m		<1	<1	<1
Phosphorus ppm ASTM D5185m 272 175 172 178 Zinc ppm ASTM D5185m 357 196 178 190 Sulfur ppm ASTM D5185m 2434 1704 1743 1806 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 <1		Magnesium	ppm	ASTM D5185m	0.1	<1	0	3
Zinc ppm ASTM D5185m 357 196 178 190 Sulfur ppm ASTM D5185m 2434 1704 1743 1806 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 <1 <1 <1 Sodium ppm ASTM D5185m >20 <1 <1 <1 Sodium ppm ASTM D5185m >20 <1 <1 <1 Potassium ppm ASTM D5185m >20 <1 0 2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 5392 & 8463 & 5368 Particles >6µm ASTM D7647 >160 75 231 92 Particles >14µm ASTM D7647 >30 0 11 47 11 Particles >38µm ASTM D7647 >30 0 1 0 0 0 Particles >31µm ASTM D7647		Calcium	ppm	ASTM D5185m	54	27	25	26
Sulfur ppm ASTM D5185m 2434 1704 1743 1806 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 <1 <1 <1 Sodium ppm ASTM D5185m >20 <1 <1 <1 Sodium ppm ASTM D5185m >20 <1 <1 <1 Potassium ppm ASTM D5185m >20 <1 0 2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 5392 4863 5368 Particles >6µm ASTM D7647 >160 75 2311 92 Particles >14µm ASTM D7647 >10 0 5 0 Particles >38µm ASTM D7647 >30 11 473 10 Particles >38µm ASTM D7647 >30 0 1 0 0 Particles >14µm ASTM D7647 >30 0 1		Phosphorus	ppm	ASTM D5185m	272	175	172	178
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>20<1		Zinc	ppm	ASTM D5185m	357	196	178	190
SiliconppmASTM D5185m>20<1<1<1SodiumppmASTM D5185m00<1		Sulfur	ppm	ASTM D5185m	2434	1704	1743	1806
SodiumppmASTM D5185m0<14PotassiumppmASTM D5185m>20<1		CONTAMINANTS	S	method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20<102FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >4µmASTM D7647<1300		Silicon	ppm	ASTM D5185m	>20	<1	<1	<1
FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >4µmASTM D7647320364581529087Particles >6µmASTM D7647>1300▲ 5392▲ 8463▲ 5368Particles >14µmASTM D7647>16075▲ 23192Particles >21µmASTM D7647>4011▲ 47711Particles >38µmASTM D7647>10050Particles >71µmASTM D7647>3010Oil CleanlinessISO 4406 (c)>17/14▲ 20/13▲ 20/15▲ 20/14FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2		Sodium	ppm	ASTM D5185m		0	<1	4
Particles >4μm ASTM D7647 32036 45815 29087 Particles >6μm ASTM D7647 >1300 5392 ▲ 8463 ▲ 5368 Particles >14μm ASTM D7647 >160 75 ▲ 231 92 Particles >21μm ASTM D7647 >40 11 ▲ 47 11 Particles >21μm ASTM D7647 >10 0 5 0 Particles >38μm ASTM D7647 >10 0 5 0 Particles >71μm ASTM D7647 >3 0 1 0 Oil Cleanliness ISO 4406 (c) >17/14 20/13 ≥20/15 ≥20/14		Potassium	ppm	ASTM D5185m	>20	<1	0	2
Particles >6µm ASTM D7647 >1300 ▲ 5392 ▲ 8463 ▲ 5368 Particles >14µm ASTM D7647 >160 75 ▲ 231 92 Particles >21µm ASTM D7647 >40 11 ▲ 47 11 Particles >38µm ASTM D7647 >10 0 5 0 Particles >38µm ASTM D7647 >3 0 1 0 Particles >71µm ASTM D7647 >3 0 1 0 Oil Cleanliness ISO 4406 (c) >17/14 ▲ 20/13 ▲ 20/15 ▲ 20/14		FLUID CLEANLI	VESS	method	limit/base	current	history1	history2
Particles >6µm ASTM D7647 >1300 ▲ 5392 ▲ 8463 ▲ 5368 Particles >14µm ASTM D7647 >160 75 ▲ 231 92 Particles >21µm ASTM D7647 >40 11 ▲ 47 11 Particles >38µm ASTM D7647 >10 0 5 0 Particles >71µm ASTM D7647 >3 0 1 0 Oil Cleanliness ISO 4406 (c) >17/14 ▲ 20/13 ▲ 20/15 ▲ 20/14		Particles >4µm		ASTM D7647		32036	45815	29087
Particles >14μm ASTM D7647 >160 75 ▲ 231 92 Particles >21μm ASTM D7647 >40 11 ▲ 47 11 Particles >38μm ASTM D7647 >10 0 5 0 Particles >71μm ASTM D7647 >3 0 1 0 Oil Cleanliness ISO 4406 (c) >17/14 ▲ 20/13 ▲ 20/15 ▲ 20/14				ASTM D7647	>1300		A 8463	▲ 5368
Particles >21μm ASTM D7647 >40 11 ▲ 47 11 Particles >38μm ASTM D7647 >10 0 5 0 Particles >37μm ASTM D7647 >3 0 1 0 Oil Cleanliness ISO 4406 (c) >17/14 ▲ 20/13 ▲ 20/15 ▲ 20/14 FLUID DEGRADATION method limit/base current history1 history2		Particles >14µm		ASTM D7647	>160	75	A 231	92
Particles >38μm ASTM D7647 >10 0 5 0 Particles >71μm ASTM D7647 >3 0 1 0 Oil Cleanliness ISO 4406 (c) >17/14 20/13 20/15 20/14 FLUID DEGRADATION method limit/base current history1 history2				ASTM D7647	>40	11	4 7	11
Particles >71μm ASTM D7647 >3 0 1 0 Oil Cleanliness ISO 4406 (c) >17/14 ▲ 20/13 ▲ 20/15 ▲ 20/14 FLUID DEGRADATION method limit/base current history1 history2		Particles >38µm		ASTM D7647	>10	0		0
Oil CleanlinessISO 4406 (c) >17/1420/1320/1520/14FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2				ASTM D7647	>3		1	0
		Oil Cleanliness					▲ 20/15	▲ 20/14
		FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
		Acid Number (AN)	mg KOH/g	ASTM D8045	0.5	0.21	0.18	0.17

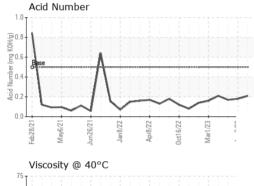
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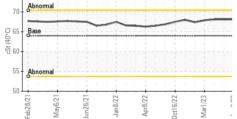


OIL ANALYSIS REPORT



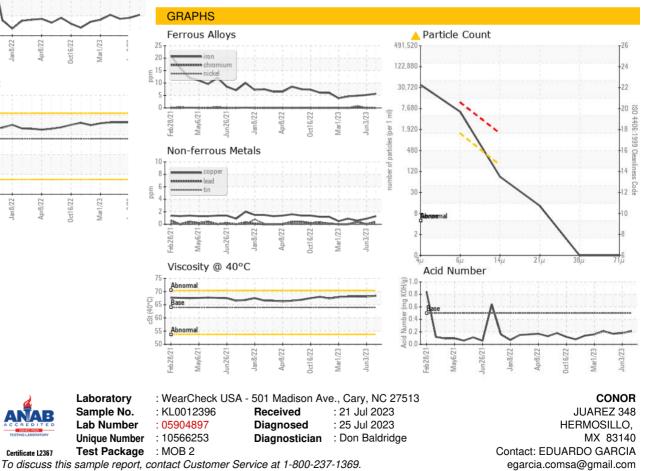






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	64	68.4	68.1	68.1
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						

Bottom



* - 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)

Certificate L2367

Submitted By: EDUARDO GARCIA

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