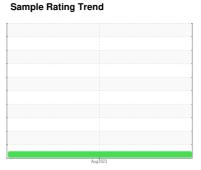


OIL ANALYSIS REPORT



NORMAL



Machine Id SAPAL 3 SAPAL 3

Gearbox

NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

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

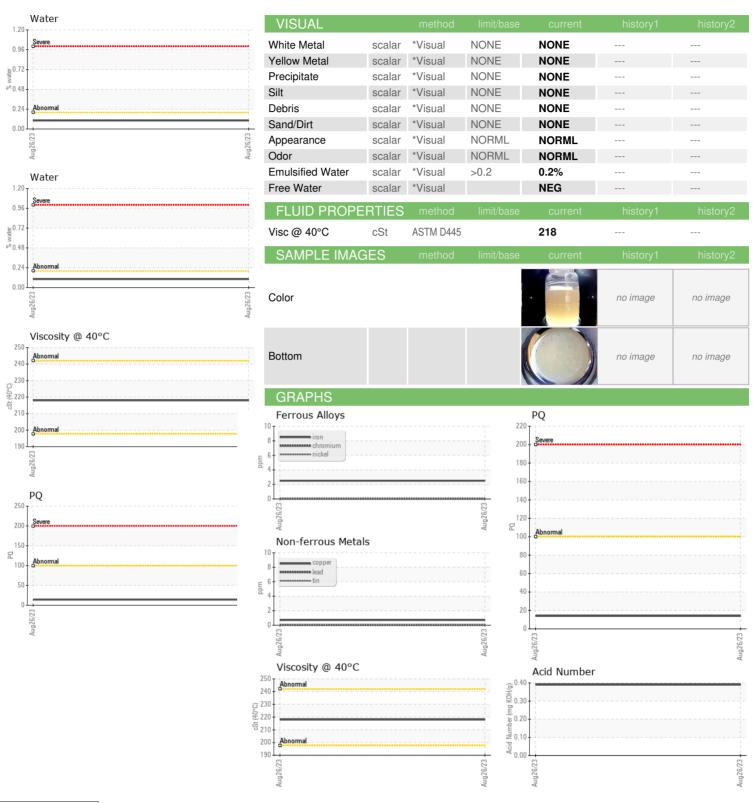
Sample Number Client Info PCA0103729							
Sample Number Client Info PCA0103729 Sample Date Client Info 26 Aug 2023 Machine Age hrs Client Info 0 Oil Age hrs Client Info N/A Oil Changed Client Info N/A Sample Status NORMAL WEAR METALS method limit/base current history1 history1 WEAR METALS method limit/base current history1 history1 VEAR METALS method limit/base current history1 history1 WEAR METALS method limit/base current history1 history1 WEAR METALS method limit/base current history1 history1 WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >25 28 Silver ppm			·	ı	Aug2023		
Sample Date Client Info 26 Aug 2023	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0	Sample Number		Client Info		PCA0103729		
Oil Age hrs Client Info 3130	Sample Date		Client Info		26 Aug 2023		
Oil Changed Sample Status Client Info N/A	Machine Age	hrs	Client Info		0		
Sample Status	Oil Age	hrs	Client Info		3130		
WEAR METALS method limit/base current history1 history1 PQ ASTM D8184 14 Iron ppm ASTM D5185m >200 2 Chromium ppm ASTM D5185m >15 0 Nickel ppm ASTM D5185m >15 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >20 <1	Oil Changed		Client Info		N/A		
PQ	Sample Status				NORMAL		
Iron	WEAR METALS	S	method	limit/base	current	history1	history2
Chromium ppm ASTM D5185m >15 0 Nickel ppm ASTM D5185m >15 0 Titanium ppm ASTM D5185m >15 0 Silver ppm ASTM D5185m >25 28 Aluminum ppm ASTM D5185m >25 28 Aluminum ppm ASTM D5185m >100 0 Lead ppm ASTM D5185m >20 -1 Copper ppm ASTM D5185m >20 -1 Tin ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0	PQ		ASTM D8184		14		
Nickel ppm ASTM D5185m >15 0 Titanium ppm ASTM D5185m -1 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >25 28 Aluminum ppm ASTM D5185m >100 0 Lead ppm ASTM D5185m >200 -1 Copper ppm ASTM D5185m >25 0 Tin ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 Barium ppm ASTM D5185m </td <td>Iron</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>200</td> <td>2</td> <td></td> <td></td>	Iron	ppm	ASTM D5185m	>200	2		
Titanium ppm ASTM D5185m <1 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >25 28 Lead ppm ASTM D5185m >100 0 Copper ppm ASTM D5185m >200 <1	Chromium	ppm	ASTM D5185m	>15	0		
Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >25 28 Lead ppm ASTM D5185m >100 0 Copper ppm ASTM D5185m >200 <1	Nickel	ppm	ASTM D5185m	>15	0		
Aluminum ppm ASTM D5185m >25 28 Lead ppm ASTM D5185m >100 0 Copper ppm ASTM D5185m >200 <1	Titanium	ppm	ASTM D5185m		<1		
Lead ppm ASTM D5185m >100 Copper ppm ASTM D5185m >200 <1	Silver	ppm	ASTM D5185m		0		
Copper ppm ASTM D5185m >200 <1 Tin ppm ASTM D5185m >25 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history1 Barium ppm ASTM D5185m 0 Barium ppm ASTM D5185m 229 Calcium ppm ASTM D5185m 123 Sulfur <	Aluminum	ppm	ASTM D5185m	>25	28		
Tin ppm ASTM D5185m >25 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history1 ADDITIVES method limit/base current history1 history1 ADDITIVES method limit/base current history1 history1 ADDITIVES method limit/base current history1 history2 ADDITIVES method limit/base current history1 history2 Barium ppm ASTM D5185m D Barium ppm ASTM D5185m D Manganese ppm ASTM D5185m D 229 Calcium ppm ASTM D5185m D 123 Sul	Lead	ppm	ASTM D5185m	>100	0		
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 3 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 229 Calcium ppm ASTM D5185m 383 Phosphorus ppm ASTM D5185m 123 Zinc ppm ASTM D5185m 1059 Sulfur ppm ASTM D5185m >50 16 CONTAMINANTS method limit/base current h	Copper	ppm	ASTM D5185m	>200	<1		
Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 229 Calcium ppm ASTM D5185m 383 Phosphorus ppm ASTM D5185m 123 Zinc ppm ASTM D5185m 1059 Sulfur ppm ASTM D5185m >50 16 Sodium ppm ASTM D5185m <1	Tin	ppm	ASTM D5185m	>25	0		
ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 3 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 229 Calcium ppm ASTM D5185m 383 Phosphorus ppm ASTM D5185m 123 Sulfur ppm ASTM D5185m 1059 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >50 16 Sodium ppm ASTM D5185m <1	Vanadium	ppm	ASTM D5185m		0		
Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 3 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 229 Phosphorus ppm ASTM D5185m 383 Zinc ppm ASTM D5185m 123 Sulfur ppm ASTM D5185m 1059 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >50 16 Sodium ppm ASTM D5185m <1	Cadmium	ppm	ASTM D5185m		0		
Barium ppm ASTM D5185m 3 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 229 Calcium ppm ASTM D5185m 383 Phosphorus ppm ASTM D5185m 123 Zinc ppm ASTM D5185m 1059 Sulfur ppm ASTM D5185m >50 16 Silicon ppm ASTM D5185m >50 16 Sodium ppm ASTM D5185m <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 229 Phosphorus ppm ASTM D5185m 383 Zinc ppm ASTM D5185m 123 Sulfur ppm ASTM D5185m 1059 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >50 16 Sodium ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m		0		
Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 229 Phosphorus ppm ASTM D5185m 383 Zinc ppm ASTM D5185m 123 Sulfur ppm ASTM D5185m 1059 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >50 16 Sodium ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		3		
Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 229 Phosphorus ppm ASTM D5185m 383 Zinc ppm ASTM D5185m 123 Sulfur ppm ASTM D5185m 1059 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >50 16 Sodium ppm ASTM D5185m <1	Molybdenum	ppm	ASTM D5185m		0		
Calcium ppm ASTM D5185m 229 Phosphorus ppm ASTM D5185m 383 Zinc ppm ASTM D5185m 123 Sulfur ppm ASTM D5185m 1059 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >50 16 Sodium ppm ASTM D5185m <1	Manganese	ppm	ASTM D5185m		0		
Phosphorus ppm ASTM D5185m 383 Zinc ppm ASTM D5185m 123 Sulfur ppm ASTM D5185m 1059 CONTAMINANTS method limit/base current history1 history1 history1 Silicon ppm ASTM D5185m >50 16 Sodium ppm ASTM D5185m <1	Magnesium	ppm	ASTM D5185m		0		
Zinc ppm ASTM D5185m 123 Sulfur ppm ASTM D5185m 1059 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >50 16 Sodium ppm ASTM D5185m <1	Calcium	ppm	ASTM D5185m		229		
Sulfur ppm ASTM D5185m 1059 CONTAMINANTS method limit/base current history1 history1 history1 Silicon ppm ASTM D5185m >50 16 Sodium ppm ASTM D5185m <1	Phosphorus	ppm	ASTM D5185m		383		
CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >50 16 Sodium ppm ASTM D5185m <1	Zinc	ppm	ASTM D5185m		123		
Silicon ppm ASTM D5185m >50 16 Sodium ppm ASTM D5185m <1	Sulfur	ppm	ASTM D5185m		1059		
Sodium ppm ASTM D5185m <1	CONTAMINAN	TS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>50	16		
Potassium ppm ASTM D5185m >20 <1	Sodium	ppm	ASTM D5185m		<1		
Ppin Notabolom >20	Potassium	ppm	ASTM D5185m	>20	<1		
Water % ASTM D6304 >0.2 0.102	Water	%	ASTM D6304	>0.2	0.102		
ppm Water ppm ASTM D6304 >2000 1020	ppm Water	ppm	ASTM D6304	>2000	1020		
FLUID DEGRADATION method limit/base current history1 history1	FLUID DEGRAD	DATION	method	limit/base	current	history1	history2

Acid Number (AN) mg KOH/g ASTM D8045

0.39



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0103729 : 05944710

: 10635322

Received Diagnosed Diagnostician

: 07 Sep 2023 : 09 Sep 2023 : Don Baldridge

Test Package : IND 2 (Additional Tests: KF, PQ) 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)

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