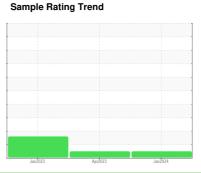


OIL ANALYSIS REPORT

PALASYN 45
Machine Id
SULLIVAN PALATEK 22AE002790 - SAWMILL

Component

Compressor





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

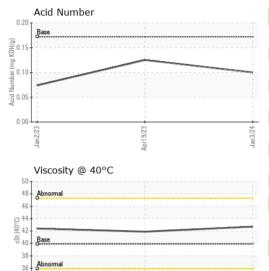
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample Number Client Info UCS06054987 UCS05828500 UCS05734			Ja	12.02.3	Apricos Janzus		
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 3687 2132 1548 Oil Age hrs Client Info 2139 1077 1548 Oil Changed Client Info Changed Not Changd Not Changd	Sample Number		Client Info		UCS06054987	UCS05828500	UCS05734198
Oil Age hrs Client Info 2139 1077 1548 Oil Changed Client Info Changed Not Changed Not Changed Sample Status Mormal Normal ATTENTIC CONTAMINATION method limit/base current history1 history1 Wear WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 <1 0 0 Chromium ppm ASTM D5185m >10 <1 0 0 Nickel ppm ASTM D5185m >10 <1 0 0 Silver ppm ASTM D5185m <1 0 0 0 Aluminum ppm ASTM D5185m >25 2 0 0 Aluminum ppm ASTM D5185m >50 2 0 <1 Cadd ppm	Sample Date		Client Info		03 Jan 2024	19 Apr 2023	02 Jan 2023
Oil Changed Sample Status Client Info Changed NORMAL Not Changd ATTENTIC CONTAMINATION method limit/base current history1 history1 Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >0 <1	Machine Age	hrs	Client Info		3687	2132	1548
NORMAL NORMAL ATTENTICE	Oil Age	hrs	Client Info		2139	1077	1548
CONTAMINATION method limit/base current history1 history1 Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 <1	Oil Changed		Client Info		Changed	Not Changd	Not Changd
Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 <1 0 0 Chromium ppm ASTM D5185m >10 <1 0 0 Nickel ppm ASTM D5185m >10 <1 0 0 Silver ppm ASTM D5185m <1 0 0 0 Aluminum ppm ASTM D5185m >25 2 0 0 Aluminum ppm ASTM D5185m >25 2 0 0 Lead ppm ASTM D5185m >50 2 0 <1 0 Copper ppm ASTM D5185m >50 2 0 <1 0 Cadad ppm ASTM D5185m >15 <1 0 0 0 Vanadium ppm ASTM D5185m 0.0	Sample Status				NORMAL	NORMAL	ATTENTION
WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 <1 0 0 Chromium ppm ASTM D5185m >10 <1 0 0 Nickel ppm ASTM D5185m <1 0 0 0 Silver ppm ASTM D5185m <1 0 0 0 Aluminum ppm ASTM D5185m >25 2 0 0 0 Aluminum ppm ASTM D5185m >25 2 0 0 0 Lead ppm ASTM D5185m >25 2 0 0 0 Copper ppm ASTM D5185m >50 2 0 <1 0 0 Vanadium ppm ASTM D5185m >15 <1 0 0 0 0 Vanadium ppm ASTM D5185m 0.0 0 0 0 0	CONTAMINATIO	N	method	limit/base	current	history1	history2
Iron	Water		WC Method	>0.1	NEG	NEG	NEG
Chromium ppm ASTM D5185m >10 <1 0 0 Nickel ppm ASTM D5185m <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	<1	0	0
Titanium ppm ASTM D5185m <1 0 0 Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 2 0 0 Lead ppm ASTM D5185m >25 <1	Chromium	ppm	ASTM D5185m	>10	<1	0	0
Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 2 0 0 Lead ppm ASTM D5185m >25 2 0 0 Copper ppm ASTM D5185m >50 2 0 <1 Tin ppm ASTM D5185m >15 <1 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0.0 0 0 0 Boron ppm ASTM D5185m 0.0 0 0 0 Barium ppm ASTM D5185m 0.0 0 0 0 Manganese ppm ASTM D5185m 0.0 0 5 0	Nickel	ppm	ASTM D5185m		<1	0	0
Aluminum ppm ASTM D5185m >25 2 0 0 Lead ppm ASTM D5185m >25 <1	Titanium	ppm	ASTM D5185m		<1	0	0
Lead ppm ASTM D5185m >25 <1 0 0 Copper ppm ASTM D5185m >50 2 0 <1 Tin ppm ASTM D5185m >15 <1 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0.0 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0.0 0 0 0 Boron ppm ASTM D5185m 0.0 0 0 0 Barium ppm ASTM D5185m 0.0 0 0 0 Malloybdenum ppm ASTM D5185m 0 <1 0 0 Magnesium ppm ASTM D5185m 0.0 0 5 0 Calcium ppm ASTM D5185m 0.0 0 0 <th< td=""><td>Silver</td><td>ppm</td><td>ASTM D5185m</td><td></td><th>0</th><td>0</td><td>0</td></th<>	Silver	ppm	ASTM D5185m		0	0	0
Copper ppm ASTM D5185m >50 2 0 <1 Tin ppm ASTM D5185m >15 <1	Aluminum	ppm	ASTM D5185m	>25	2	0	0
Tin ppm ASTM D5185m >15 <1 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m c1 0 0 ADDITIVES method limit/base current history1 history Boron ppm ASTM D5185m 0.0 0 0 0 Barium ppm ASTM D5185m 0.0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 0 1 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 0 Calcium ppm ASTM D5185m 0.0 0 0 0 0 Phosphorus ppm ASTM D5185m 0.0 0 0 0 0 Phosphorus ppm ASTM D5185m 0.0 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 0 0 Sulfur ppm ASTM D5185m 225 2 <1 2 Sodium ppm ASTM D5185m 0 0 0 0 0 Potassium ppm ASTM D5185m >20 1 0 0 FLUID DEGRADATION method limit/base current history1 history FLUID DEGRADATION method limit/base current history1 history	Lead	ppm	ASTM D5185m	>25	<1	0	0
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0.0 0 0 0 Barium ppm ASTM D5185m 0.0 0 0 0 Molybdenum ppm ASTM D5185m 0.0 0 0 0 Manganese ppm ASTM D5185m 0.0 0 5 0 Magnesium ppm ASTM D5185m 0.0 0 5 0 Calcium ppm ASTM D5185m 0.0 0 0 0 Phosphorus ppm ASTM D5185m 966 488 462 620 Zinc ppm ASTM D5185m 1309 1224 1209 1579 CONTAMINANTS method limit/base current history1 history1	Copper	ppm	ASTM D5185m	>50	2	0	<1
Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0.0 0 0 0 Barium ppm ASTM D5185m 0.0 0 0 0 Molybdenum ppm ASTM D5185m 0 <1	Tin	ppm	ASTM D5185m	>15	<1	0	0
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0.0 0 0 0 Barium ppm ASTM D5185m 0.0 0 0 0 Molybdenum ppm ASTM D5185m 0 <1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 0.0 0 0 0 Barium ppm ASTM D5185m 0.0 0 0 0 Molybdenum ppm ASTM D5185m 0 <1 0 0 Manganese ppm ASTM D5185m 0 <1 0 0 Magnesium ppm ASTM D5185m 0.0 0 5 0 Calcium ppm ASTM D5185m 0.0 0 0 0 Phosphorus ppm ASTM D5185m 0.0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >20 1 0 0 Potassium ppm ASTM D5185m >20 1 0 <td>Cadmium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th><1</th> <td>0</td> <td>0</td>	Cadmium	ppm	ASTM D5185m		<1	0	0
Barium ppm ASTM D5185m 0.0 0 0 0 Molybdenum ppm ASTM D5185m 0 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 <1 0 0 Manganese ppm ASTM D5185m 0 <1 0 0 Magnesium ppm ASTM D5185m 0.0 0 5 0 Calcium ppm ASTM D5185m 0.0 0 0 0 Phosphorus ppm ASTM D5185m 966 488 462 620 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 1309 1224 1209 1579 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 2 <1 2 Sodium ppm ASTM D5185m >20 1 0 0 FLUID DEGRADATION method limit/base current history1 history	Boron	ppm	ASTM D5185m	0.0	0	0	0
Manganese ppm ASTM D5185m 0 <1 0 0 Magnesium ppm ASTM D5185m 0.0 0 5 0 Calcium ppm ASTM D5185m 0.0 0 0 0 Phosphorus ppm ASTM D5185m 966 488 462 620 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 1309 1224 1209 1579 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 2 <1 2 Sodium ppm ASTM D5185m >20 1 0 0 FLUID DEGRADATION method limit/base current history1 history	Barium	ppm	ASTM D5185m	0.0	0	0	0
Magnesium ppm ASTM D5185m 0.0 0 5 0 Calcium ppm ASTM D5185m 0.0 0 0 0 Phosphorus ppm ASTM D5185m 966 488 462 620 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 1309 1224 1209 1579 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 2 <1 2 Sodium ppm ASTM D5185m >20 1 0 0 FLUID DEGRADATION method limit/base current history1 history	Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Calcium ppm ASTM D5185m 0.0 0 0 0 Phosphorus ppm ASTM D5185m 966 488 462 620 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 1309 1224 1209 1579 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 2 <1	Manganese	ppm	ASTM D5185m	0	<1	0	0
Phosphorus ppm ASTM D5185m 966 488 462 620 Zinc ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 1309 1224 1209 1579 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 2 <1	Magnesium	ppm	ASTM D5185m	0.0	0	5	0
Zinc ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 1309 1224 1209 1579 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 2 <1 2 Sodium ppm ASTM D5185m 0 0 0 Potassium ppm ASTM D5185m >20 1 0 0 FLUID DEGRADATION method limit/base current history1 history	Calcium	ppm	ASTM D5185m	0.0	0	0	0
Sulfur ppm ASTM D5185m 1309 1224 1209 1579 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 2 <1	Phosphorus	ppm	ASTM D5185m	966	488	462	620
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 2 <1	Zinc	ppm	ASTM D5185m	0	0	0	0
Silicon ppm ASTM D5185m >25 2 <1 2 Sodium ppm ASTM D5185m 0 0 0 0 Potassium ppm ASTM D5185m >20 1 0 0 FLUID DEGRADATION method limit/base current history1 history	Sulfur	ppm	ASTM D5185m	1309	1224	1209	1579
Sodium ppm ASTM D5185m 0 0 0 0 Potassium ppm ASTM D5185m >20 1 0 0 FLUID DEGRADATION method limit/base current history1 history	CONTAMINANTS	;	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 1 0 0 FLUID DEGRADATION method limit/base current history1 history	Silicon	ppm	ASTM D5185m	>25	2	<1	2
FLUID DEGRADATION method limit/base current history1 history	Sodium		ASTM D5185m		0	0	0
	Potassium	ppm	ASTM D5185m	>20	1	0	0
Acid Number (AN) mg KOH/g ASTM D8045 0.172 0.10 0.125 0.074	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.172	0.10	0.125	0.074

Sullivan

34

OIL ANALYSIS REPORT



Apr19/23

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	0.2%
Free Water	scalar	*Visual		NEG	NEG	1.0
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	39.9	42.7	41.9	42.4

SAMPLE IMAGES Color



Ferrous Alloys Non-ferrous Metals Viscosity @ 40°C Acid Number 0.20 0.15 0.10 샹 . 5 0.05 0.00 G





Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10820936

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : UCS06054987 : 06054987

Test Package : IND 2

Recieved Diagnosed

: 08 Jan 2024 : 10 Jan 2024 Diagnostician : Angela Borella

GREENTREE HARDWOOD

FLAT ROCK, IL US 62427

Contact: Service Manager

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)

F: (618)584-3443