Sullivan Palatek.

OIL ANALYSIS REPORT

Area PALEXTRA 44 **POLAR AIR 261690-EVC - ESTROLD WILLISTON** Component

Compressor

Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

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.

	NORMAL
Feb2023 Jan2024	

Sample Rating Trend

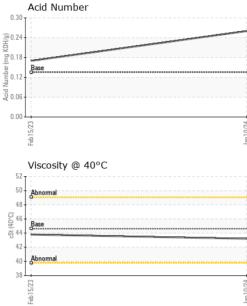


SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		UCS06065725	UCS05774042	
Sample Date		Client Info		10 Jan 2024	15 Feb 2023	
Machine Age	hrs	Client Info		8418	6736	
Oil Age	hrs	Client Info		1000	3000	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	0	0	
Lead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m	>50	<1	0	
Tin	ppm	ASTM D5185m	>15	0	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	
Barium	ppm	ASTM D5185m	0.3	0	1	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m	0.3	0	0	
Magnesium	ppm	ASTM D5185m	0.4	0	0	
Calcium	ppm	ASTM D5185m	0	0	0	
Phosphorus	ppm	ASTM D5185m	689	315	544	
Zinc	ppm	ASTM D5185m	0	61	13	
Sulfur	ppm	ASTM D5185m	1237	820	312	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	0	<1	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.135	0.26	0.17	



OIL ANALYSIS REPORT

VISUAL



	- White	e Metal	scalar	*Visual	NONE	NONE	NONE	
	Yello	w Metal	scalar	*Visual	NONE	NONE	NONE	
	Preci	pitate	scalar	*Visual	NONE	NONE	NONE	
	Silt		scalar	*Visual	NONE	NONE	NONE	
	Debri	is	scalar	*Visual	NONE	NONE	LIGHT	
	Sand	l/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appe	arance	scalar	*Visual	NORML	NORML	NORML	
	Odor		scalar	*Visual	NORML	NORML	NORML	
	Emul	sified Water	scalar	*Visual	>0.1	NEG	NEG	
	Free	Water	scalar	*Visual		NEG	NEG	
	FLL	JID PROPER	RTIES	method	limit/base	current	history1	history2
		@ 40°C	cSt	ASTM D445	44.62	43.2	43.8	
		MPLE IMAGE		method	limit/base	current	history1	history2
	_			mothod		• • • •		no image
	Jan 10/24							
	Botto	m						no image
	GR	APHS						
	Fer	rous Alloys						
	¹⁰ T							
		iron						
	8	iron chromium nickel						
		chromium						
	8	chromium						
		chromium			24			
		chromium			an 10/24			
	10 8 6	nickel	alc		Jan 10/24			
	10 8 6	chromium	als		Jan10/24			
	10 T 8 T 2 T 0 CC251 P P F	n-ferrous Meta	als		Jan 10/24			
	10 8 4 2 0 12/51 19 Nor 10 1 10 1 10 10 10 10 10 10	n-ferrous Meta	als		Jan1024			
	10 T 8 T 2 T 0 CC251 P P F	n-ferrous Meta	als		Jan 10/24			
	10 8 4 2 0 12/51 19 Nor 10 1 10 1 10 10 10 10 10 10	n-ferrous Meta	als		Jan 10/24			
	10 T 8 T 2 T 0 EC251 rgg Nor 10 T 0 F 0 EC251 rgg Nor	n-ferrous Meta	als					
	10 T 8 T 2 T 0 EC251 rgg Nor 10 T 0 F 0 EC251 rgg Nor	n-ferrous Meta	als					
	10 T widd 2 U 0 F 10 T 10	n-ferrous Meta			Jan10/24			
	10 T widd 2 U 0 F 10 T 10	n-ferrous Meta			Jan 10/24	Acid Number		
	10 4 2 0 55 10 10 10 10 10 10 10 10 10 10	n-ferrous Meta			Jan 10/24			
	10	n-ferrous Meta copper lead cosity @ 40°C			Jan 10/24			
	10 T 8 T 10 T 1	n-ferrous Meta copper lead tin cosity @ 40°C			Jan 10/24			
	10 T 8 T 10 T 1	n-ferrous Meta copper lead cosity @ 40°C			Jan 10/24			
	10 4 2 0 CZ/S1(q) Nor 10 4 4 2 0 CZ/S1(q) Visc 55 50 40 45 55 40 45 45 45 45 45 45 45 45 45 45	n-ferrous Meta copper lead tin cosity @ 40°C			(b)(10,030 (b)(10,024 (b)(10,024 (b)(10,024 (b)(10,024 (b)(10,024)	Base		
	10 4 2 0 CZ/S1(q) Nor 10 4 4 2 0 CZ/S1(q) Visc 55 50 40 45 55 40 45 45 45 45 45 45 45 45 45 45	n-ferrous Meta copper lead tin cosity @ 40°C			(b)(10,030 (b)(10,024 (b)(10,024 (b)(10,024 (b)(10,024 (b)(10,024)	Base		
	10 4 2 0 EZS151 (Pg. Nor 10 4 2 0 EZS151 (Pg. Nor 10 4 2 0 EZS151 (Pg. Nor 10 4 2 0 EZS151 (Pg. Nor 10 10 10 10 10 10 10 10 10 10	n-ferrous Meta copper lead tin cosity @ 40°C			Bin 0.20 Bin			
Laboratory Sample No	10 4 2 0 5 5 5 5 5 5 5 5 5 5 5 5 5	n-ferrous Meta lead cosity @ 40°C ormal rCheck USA -	501 Madia		10,0.30 10,0.00 10,	Base Base		
Laboratory Sample No. Lab Number	Uise 10 4 2 0 10 4 2 0 10 10 4 2 0 10 10 10 10 10 10 10 10 10	n-ferrous Meta lead cosity @ 40°C mal comal rCheck USA - 06065725	501 Madia	d :19.	Paul 10/24 42001 mm 4000 Kmm bio 4000 Kmm 4000 Kmm	Base Base	JE	MCO-MAXA
Sample No. Lab Number Unique Number	Nor 10 4 2 0 525 19 10 10 10 10 10 10 10 10 10 10	n-ferrous Meta cosity @ 40°C amal cosity @ 40°C amal cosity @ 40°C	501 Madia	d :19. ed :22.	(0,000 (0,00)	Base Base	JE	E MCO-MAXA I
Sample No. Lab Number Unique Numb Test Packag	Nor 10 4 2 0 525 19 10 10 10 10 10 10 10 10 10 10	cosity @ 40°C cosity @ 40°C cosity @ 40°C cosity @ 40°C comal	501 Madia Recieved Diagnost	d : 19 c ed : 22 c tician : Ang	10000000000000000000000000000000000000	Base Base	JE WES	MCO-MAXAI ST FARGO, N US 5807 ontact: DALE
Sample No. Lab Number Unique Number	10 10 10 10 10 10 10 10 10 10	rCheck USA - 006065725 05725 057107 2 Customer Ser	501 Madia Recieved Diagnost Diagnost	d : 19 c ed : 22 c tician : Ang 800-237-1369	12001 Leng 12001	Base Base	JE WES Ca dalek@jem	MCO-MAXAI ST FARGO, N US 5807 ontact: DALE nco-maxair.co (701)281-036

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Contact/Location: DALE K - UCJEMWES