



**Predictive Maintenance Services, Inc.**  
 111 N. Walnut St  
 Dover, Ohio 44622  
 740-922-2025

www.theoilab.com

Unit ID: **SUNFLOWER ENGINE**  
 Client ID: **34242 CHRIS SITARZ INC**  
 Unit Type: **DIESEL ENGINE**  
 Unit Make: **YANMAR**  
 Unit Model: **NONE GIVEN**  
 Component Make: **4JH3-HTE**  
 Component Model: **E23465**

Year  
 Lube Type: **NONE GIVEN**  
 Grade: **15W40**  
 Capacity:  
 Oil Changed: **NO**

**ATTENTION CODE:**

**Slight**

**Condition Monitoring Report**

<b>REMARKS</b>	*WEAR AND CONTAMINANT LEVELS APPEAR NORMAL. *VISCOSITY SLIGHTLY LOW *NO CORRECTIVE ACTION AT THIS TIME. CONTINUE NORMAL PM. RESAMPLE AT NORMAL INTERVAL.	<b>ATTENTION CODES</b>
		<b>AAA</b> Acceptable <b>NNN</b> Negative
		<b>!!!</b> Critical <b>DDD</b> Critical - Below
		<b>EEE</b> Excessive
		<b>***</b> Severe <b>MMM</b> Moderate
		<b>CCC</b> Severe - Below <b>BBB</b> Caution - Below
		<b>===</b> Caution <b>---</b> Slightly Above Normal
	<b>LLL</b> Slightly Below Normal	
	<b>TTT</b> Trend	

ASTM D6595 (PPM) WEAR METALS										MULTISOURCE										ADDITIVES				
IRON	CHROMIUM	LEAD	COPPER	TIN	ALUMINUM	NICKEL	SILVER	CADMIUM	VANADIUM	SILICON	BORON	SODIUM	POTASSIUM	MAGNESIUM	TITANIUM	MOLYBDENUM	MANGANESE	LITHIUM	ANTIMONY	CALCIUM	PHOSPHORUS	ZINC	BARIUM	
Lab #: 1293296 Dt Tkn: 4/4/2023 Dt Recd: 4/5/2023 HrO: 2 HrU: 3400 MiO: MiU: Make Up Oil: 0 qts																								
6	0	0	9	0	0	0	0	0	0	12	127	6	9	13	0	0	0	0	0	1951	1072	1275	0	

Testing performed at Predictive Maintenance Services. ISO/IEC 17025 accredited laboratory ANAB certificate number AT-2513. This report may not be reproduced in any form except in full. Remarks and comments are advisory only and are based on the assumption that the sample is representative and data submitted is valid. Missing information limits the evaluation. No Warranty is expressed or implied. CHRIS SITARZ INC Assumes responsibility for the application of results and recommendations. Measurement uncertainty available upon request. (\*) Not in the scope of accreditation. (#) Not in the scope of accreditation and testing outsourced to an approved laboratory.

AN / BN (mg KOH/g)		VISCOSITY ASTM D445M			CONTAMINANTS					FTIR - abs units	
Acid Number	Base Number	VISC 40c cSt	VISC 100c cSt	VISC INDEX	%WATER	KFISCH (PPM)	FUEL* (FTIR/ASTM D7094)	GLYC (ASTM D2982)	SOOT (ASTM D7844)	OXI (ASTM D7414)	NIT (ASTM D7624)
a = ASTM D974 b=ASTM D664	a = Lab Method WI-038 b = ASTM D4739 c = ASTM D2896*				a = Crackle Test k = ASTM D6304a v = ASTM D6304b* o = ASTM D6304c r=Refractometer*						
1293296			11.5 LLL		< 0.1 (a)		A AAA	N NNN	0.13	17.01	0

PARTICLE COUNT ISO 4406 - Particles per mL							
	>4(c)	>6(c)	>14(c)	>21(c)	>38(c)	>70(c)	ISO
1293296	0	0	0	0	0	0	//

Reviewed and Approved by: JC

*Jared Carbaugh, Analyst*

Report Date: 04-07-2023

Barcode:

Date Tested: 04-05-2023 - 04-07-2023

CHRIS SITARZ  
CHRIS SITARZ INC  
16 MARSHALL ST  
LIBBON ME  
04250



**Predictive Maintenance Services, Inc.**  
 111 N. Walnut St  
 Dover, Ohio 44622  
 740-922-2025

www.theoilab.com

Unit ID: **SUNFLOWER GEN ENGINE**  
 Client ID: **34242 CHRIS SITARZ INC**  
 Unit Type: **DIESEL ENGINE**  
 Unit Make: **ONAN**  
 Unit Model: **NONE GIVEN**  
 Component Make: **11MDKAW-5667234**  
 Component Model: **NONE GIVEN**

Year  
 Lube Type: **NONE GIVEN**  
 Grade: **15W40**  
 Capacity:  
 Oil Changed: **NO**

**ATTENTION CODE:**

**Normal**

## Condition Monitoring Report

<b>REMARKS</b>	*WEAR AND CONTAMINATION LEVELS APPEAR NORMAL. NO CORRECTIVE ACTION IS INDICATED BY TESTS PERFORMED. CONTINUE NORMAL OEM MAINTENANCE & SAMPLE INTERVALS.	<b>ATTENTION CODES</b>	
		<b>AAA</b> Acceptable	<b>NNN</b> Negative
		<b>!!!</b> Critical	<b>DDD</b> Critical - Below
		<b>EEE</b> Excessive	
		<b>***</b> Severe	<b>MMM</b> Moderate
		<b>CCC</b> Severe - Below	
		<b>===</b> Caution	<b>BBB</b> Caution - Below
		<b>---</b> Slightly Above Normal	
		<b>LLL</b> Slightly Below Normal	
		<b>TTT</b> Trend	

ASTM D6959 (PPM) WEAR METALS										MULTISOURCE								ADDITIVES					
IRON	CHROMIUM	LEAD	COPPER	TIN	ALUMINUM	NICKEL	SILVER	CADMIUM	VANADIUM	SILICON	BORON	SODIUM	POTASSIUM	MAGNESIUM	TITANIUM	MOLYBDENUM	MANGANESE	LITHIUM	ANTIMONY	CALCIUM	PHOSPHORUS	ZINC	BARIUM
Lab #: 1293297 Dt Tkn: 4/4/2023 Dt Recd: 4/5/2023 HrO: 2 HrU: 2179 MiO: MiU: Make Up Oil: 0 qts																							
1	0	0	0	0	0	0	0	0	0	2	135	5	9	12	0	0	0	0	0	1859	1057	1184	0

Testing performed at Predictive Maintenance Services. ISO/IEC 17025 accredited laboratory ANAB certificate number AT-2513. This report may not be reproduced in any form except in full. Remarks and comments are advisory only and are based on the assumption that the sample is representative and data submitted is valid. Missing information limits the evaluation. No Warranty is expressed or implied. CHRIS SITARZ INC Assumes responsibility for the application of results and recommendations. Measurement uncertainty available upon request. (\*) Not in the scope of accreditation. (#) Not in the scope of accreditation and testing outsourced to an approved laboratory.

Client ID: 34242 CHRIS SITARZ INC

Unit ID: SUNFLOWER GEN  
ENGINE

AN / BN (mg KOH/g)		VISCOSITY ASTM D445M			CONTAMINANTS					FTIR - abs units	
Acid Number	Base Number	VISC 40c cSt	VISC 100c cSt	VISC INDEX	%WATER	KFISCH (PPM)	FUEL* (FTIR/ASTM D7094)	GLYC (ASTM D2982)	SOOT (ASTM D7844)	OXI (ASTM D7414)	NIT (ASTM D7624)
a = ASTM D974 b=ASTM D664	a = Lab Method WI-038 b = ASTM D4739 c = ASTM D2896*				a = Crackle Test k = ASTM D6304a v = ASTM D6304b* o = ASTM D6304c r=Refractometer*						
1293297			14.59		< 0.1 (a)		A AAA	N NNN	0.1	15.95	0

PARTICLE COUNT ISO 4406 - Particles per mL							
	>4(c)	>6(c)	>14(c)	>21(c)	>38(c)	>70(c)	ISO
1293297	0	0	0	0	0	0	//

Reviewed and Approved by: JC

*Jared Carbaugh, Analyst*

Report Date: 04-07-2023

Barcode:

Date Tested: 04-05-2023 - 04-07-2023

CHRIS SITARZ  
CHRIS SITARZ INC  
16 MARSHALL ST  
LIBBON ME  
04250



**Predictive Maintenance Services, Inc.**  
 111 N. Walnut St  
 Dover, Ohio 44622  
 740-922-2025

www.theoilab.com

Unit ID: **SUNFLOWER TRANS**  
 Client ID: **34242 CHRIS SITARZ INC**  
 Unit Type: **GEAR BOX**  
 Unit Make: **NONE GIVEN**  
 Unit Model: **NONE GIVEN**  
 Component Make: **ZF ZF30M**  
 Component Model: **NONE GIVEN**

Year  
 Lube Type: **NONE GIVEN**  
 Grade: **ATF**  
 Capacity:  
 Oil Changed: **NO**

**ATTENTION CODE:**

**Normal**

## Condition Monitoring Report

<b>REMARKS</b>	*WEAR AND CONTAMINATION LEVELS APPEAR NORMAL. NO CORRECTIVE ACTION IS INDICATED BY TESTS PERFORMED. CONTINUE NORMAL OEM MAINTENANCE & SAMPLE INTERVALS.	<b>ATTENTION CODES</b>	
		<b>AAA</b> Acceptable	<b>NNN</b> Negative
		<b>!!!</b> Critical	<b>DDD</b> Critical - Below
		<b>EEE</b> Excessive	
		<b>***</b> Severe	<b>MMM</b> Moderate
		<b>CCC</b> Severe - Below	
		<b>===</b> Caution	<b>BBB</b> Caution - Below
		<b>---</b> Slightly Above Normal	
	<b>LLL</b> Slightly Below Normal		
	<b>TTT</b> Trend		

ASTM D6595 (PPM) WEAR METALS										MULTISOURCE								ADDITIVES						
IRON	CHROMIUM	LEAD	COPPER	TIN	ALUMINUM	NICKEL	SILVER	CADMIUM	VANADIUM	SILICON	BORON	SODIUM	POTASSIUM	MAGNESIUM	TITANIUM	MOLYBDENUM	MANGANESE	LITHIUM	ANTIMONY	CALCIUM	PHOSPHORUS	ZINC	BARIUM	
Lab #: 1293298 Dt Tkn: 4/4/2023 Dt Recd: 4/5/2023 HrO: 2 HrU: 3400 MiO: MiU: Make Up Oil: 0 qts																								
38	0	7	37	1	0	0	0	0	0	2	41	0	0	0	0	5	0	0	0	4	99	3	1	

Testing performed at Predictive Maintenance Services. ISO/IEC 17025 accredited laboratory ANAB certificate number AT-2513. This report may not be reproduced in any form except in full. Remarks and comments are advisory only and are based on the assumption that the sample is representative and data submitted is valid. Missing information limits the evaluation. No Warranty is expressed or implied. CHRIS SITARZ INC Assumes responsibility for the application of results and recommendations. Measurement uncertainty available upon request. (\*) Not in the scope of accreditation. (#) Not in the scope of accreditation and testing outsourced to an approved laboratory.

AN / BN (mg KOH/g)		VISCOSITY ASTM D445M			CONTAMINANTS					FTIR - abs units	
Acid Number	Base Number	VISC 40c cSt	VISC 100c cSt	VISC INDEX	%WATER	KFISCH (PPM)	FUEL* (FTIR/ASTM D7094)	GLYC (ASTM D2982)	SOOT (ASTM D7844)	OXI (ASTM D7414)	NIT (ASTM D7624)
a = ASTM D974 b=ASTM D664	a = Lab Method WI-038 b = ASTM D4739 c = ASTM D2896*				a = Crackle Test k = ASTM D6304a v = ASTM D6304b* o = ASTM D6304c r=Refractometer*						
1293298		26.66			< 0.1 (a)						

PARTICLE COUNT ISO 4406 - Particles per mL							
	>4(c)	>6(c)	>14(c)	>21(c)	>38(c)	>70(c)	ISO
1293298	0	0	0	0	0	0	//

Reviewed and Approved by: JC

*Jared Carbaugh, Analyst*

Report Date: 04-07-2023

Barcode:

Date Tested: 04-05-2023 - 04-07-2023

CHRIS SITARZ  
CHRIS SITARZ INC  
16 MARSHALL ST  
LIBBON ME  
04250