

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

COVE (S/N A9046)

Natural Gas Engine

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

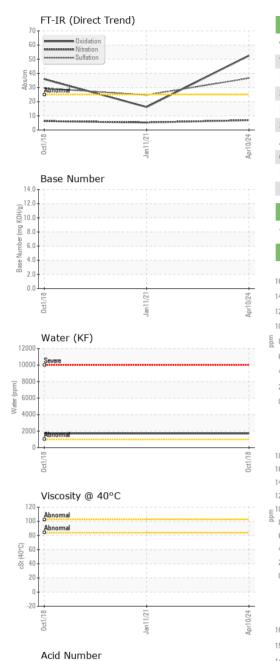
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0039452	RP0014801	RP203731
Sample Date		Client Info		10 Apr 2024	11 Jan 2021	01 Oct 2018
Machine Age	hrs	Client Info		16	86	79
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	8	8	15
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	4	5	1
Lead	ppm	ASTM D5185m	>30	5	4	18
Copper	ppm	ASTM D5185m	>35	12	5	14
Tin	ppm	ASTM D5185m	>4	2	1	0
Antimony	ppm	ASTM D5185m			0	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	10	41
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		137	5	12
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		889	19	77
Calcium	ppm	ASTM D5185m		2876	3093	1440
Phosphorus	ppm	ASTM D5185m		342	338	585
Zinc	ppm	ASTM D5185m		369	381	486
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	18	15	34
Sodium	ppm	ASTM D5185m		2	2	4
Potassium	ppm	ASTM D5185m	>20	3	<1	0
Water	%	ASTM D6304	>0.1	NEG	NEG	0.171
ppm Water	ppm	ASTM D6304	>1000			1710
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.9	5.3	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	36.6	24.7	29.5
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	52.5	16.2	35.9
Acid Number (AN)	mg KOH/g	ASTM D8045	-		0.693	1.343
Base Number (BN)	mg KOH/g	ASTM D2896		12.90		



1.4

0.2 0.0 0ct1/18

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nd)		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
	and the second	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
\smile		Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Jan 11/2	Apr10/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
P	Ap	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
		Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
		Free Water	scalar	*Visual		NEG	NEG	NEG
		FLUID PROPER		method	limit/base	current		history2
1		Visc @ 100°C	cSt	ASTM D445		12.5	11.0	9.32
		GRAPHS						
		Ferrous Alloys						
/21-	/24	14- iron chromium						
Jan 11/21	Apr10/24	12 - nickel						
		10						
		唐 8	1					
		6						
		2						
		0						
		0ct1/18	Jan 11/21		Apr10/24			
		ŏ	Jan		Apr			
	8	Non-ferrous Meta	ls					
	0ct1/18	16 - copper						
		14						
		12		_	/			
				/				
		6-						
		4		4	I I Terrenere			
		2		August 1000000000000000000000000000000000000				
		0ct1/18	Jan11/21		Apr10/24			
-					Apr			
Jan 1 1/2 1	Apr10/24 -	Viscosity @ 100°C	2			Acid Numb	ber	
, L	A	Abnormal			1.	4		
		14			1.			
		G ¹³			/HOX	.0		
		© ¹³ 0 12 % 11 Abnormal			Acid Number (mg KOH/g)	.8		
<hr/>		to 11_ Abnormal			duny.	.6		
		10						
		9-			0.			
	~		1/21-			0ct1/18	1/21+	
Jan 11/21	10.01-	Octi	Jan11/21		Apr10/24	Oct1	Jan 11/2	
ξĻ	Α							
d	Laboratory	: WearCheck USA - 50					WARWICK SEWE	
ANAB	Sample No. Lab Number	: RP0039452	Rece Teste		4 May 2024 7 May 2024		125 ARTHUR	
ISONC ITEL	Unique Number				May 2024	ean Felton		WARWICK, I US 0288
Certificate L2367	Test Package	: IND 2 (Additional Tes	sts: FT-IF	R, KV100, TB	N)		Contact: JOHN	I BROSNAHA
		t, contact Customer Serv					john.s.brosnahan@	
		t are outside of the ISO 1 pecifications are based of				n rule (JCGM	106:2012)	-
				pic accepta				

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Contact/Location: JOHN BROSNAHAN - WARWARRI