

OIL ANALYSIS

Oxidation

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 8.5

Area PORTABLE **CUMMINS Portable Cummins Genera**

Diesel Engine

DIESEL ENGINE OIL SAE 5W40 (39 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. (Customer Sample Comment: Unit was ran for 1 hr on the Buss loaded. Annual ZZZZ inspection)

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.

SIS REPC	RT	Samp	le Rating Tre	end	N	NORMAL	
nerator 100	0KW	3 ₆₉ 2013	Aug2017 Fe2/2020	Judozi Judoza	Элёсга		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0819705	WC0670630	WC0670628	
Sample Date		Client Info		07 Jul 2024	28 Aug 2023	25 Jul 2023	
Machine Age	hrs	Client Info		1172	1165	1160	
Dil Age	hrs	Client Info		56	59	44	
Dil Changed	1110	Client Info		Not Changd	Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	N	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Vater		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185m	>90	3	4	3	
Chromium	ppm	ASTM D5185m	>20	0	<1	<1	
lickel	ppm	ASTM D5185m	>2	0	0	0	
ītanium	ppm	ASTM D5185m	>2	92	104	97	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Numinum	ppm	ASTM D5185m	>20	1	1	1	
ead	ppm	ASTM D5185m	>40	<1	<1	0	
Copper	ppm	ASTM D5185m	>330	3	4	3	
īn	ppm	ASTM D5185m	>15	<1	0	0	
/anadium	ppm	ASTM D5185m		<1	1	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	250	146	196	169	
Barium	ppm	ASTM D5185m	10	0	2	0	
lolybdenum	ppm	ASTM D5185m	100	0	<1	<1	
langanese	ppm	ASTM D5185m		0	<1	<1	
lagnesium	ppm	ASTM D5185m	450	719	749	776	
Calcium	ppm	ASTM D5185m	3000	1334	1400	1378	
hosphorus	ppm	ASTM D5185m	1150	1065	1091	1063	
linc	ppm	ASTM D5185m	1350	1242	1265	1223	
Gulfur	ppm	ASTM D5185m	4250	4556	4453	4496	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	9	11	9	
Sodium	ppm	ASTM D5185m	>44	2	4	2	
Potassium	ppm	ASTM D5185m	>20	3	4	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.1	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	6.8	6.5	6.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	17.6	17.6	
FLUID DEGRADA		method	limit/base	current	history1	history2	

12.7

10.22

12.5

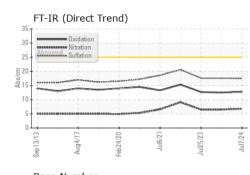
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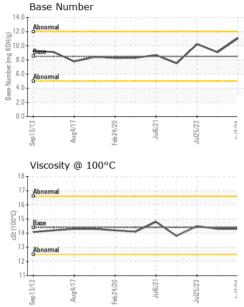
12.8

11.07



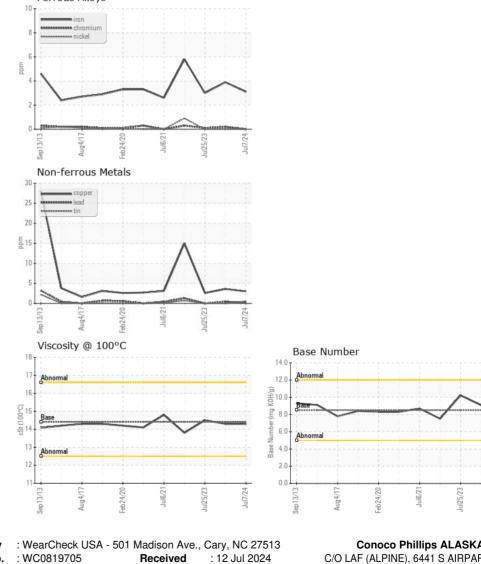
OIL ANALYSIS REPORT

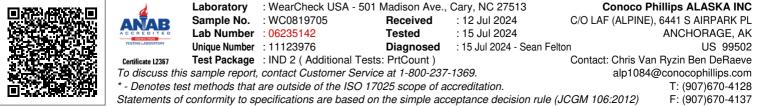




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	14.3	14.3	14.5
GRAPHS						

Ferrous Alloys





Submitted By: Chris Van Ryzin Ben DeRaeve

Page 2 of 2

lu17/24