

OIL ANALYSIS REPORT

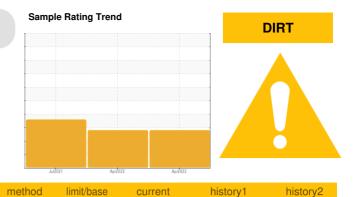


DIAGNOSIS

PORTABLE CATERPILLAR AP-G-70110 CAT 800KW Generator Component **Diesel Engine**

DIESEL ENGINE OIL SAE 5W40 (26 GAL)

SAMPLE INFORMATION



WC0552824

WC05301801

WC0469443

 Recommendation No corrective action is recommended at this time. Resample at the next service interval to monitor. Wear The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). 	Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs hrs	Client Info Client Info Client Info Client Info Client Info	
Contamination	CONTAMINATIO	method		
Elemental level of silicon (Si) above normal indicating ingress of seal material.		WC Method WC Method		
Fluid Condition	WEAR METALS		method	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in	Iron	ppm	ASTM D5185m	>
the oil. Confirm oil type.	Chromium	ppm	ASTM D5185m	
	Nickel	ppm	ASTM D5185m	
	Titanium	ppm	ASTM D5185m	>
	Silver	ppm	ASTM D5185m	>
	Aluminum	ppm	ASTM D5185m	>
	Lead	ppm	ASTM D5185m	>
	Copper	ppm	ASTM D5185m	>
	Tin	ppm	ASTM D5185m	>
	Antimony	ppm	ASTM D5185m	
	Vanadium	ppm	ASTM D5185m	
	Cadmium	ppm	ASTM D5185m	
	ADDITIVES		method	
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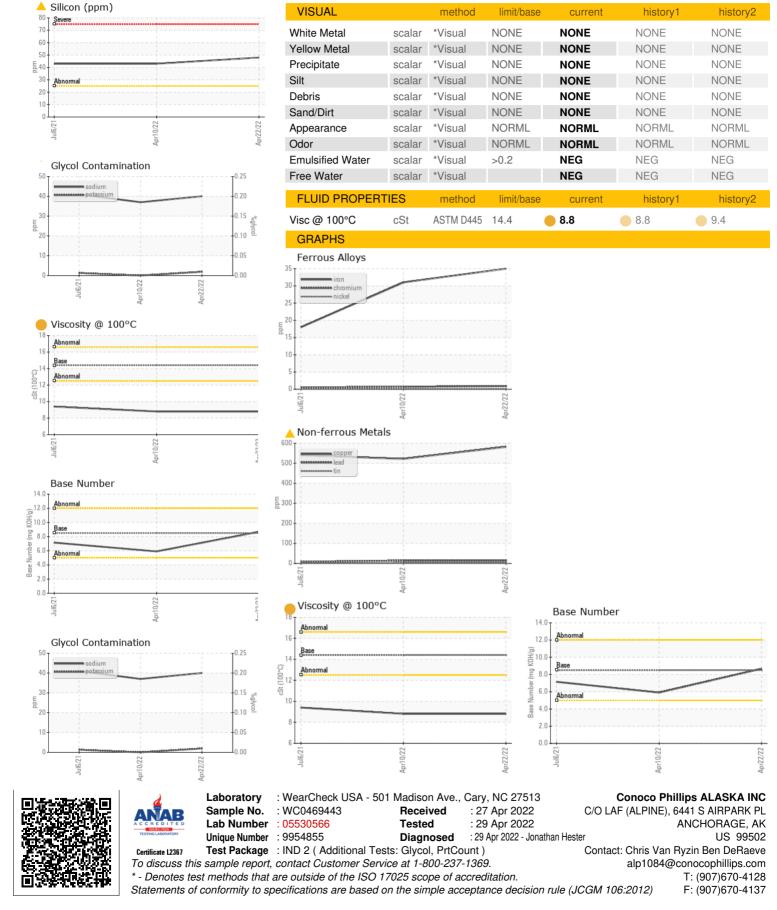
Sample Date		Client Info		22 Apr 2022	10 Apr 2022	06 Jul 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	476	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	1.7	3 .2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	35	31	18
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	1	<1
Aluminum	ppm	ASTM D5185m	>25	2	2	0
Lead	ppm	ASTM D5185m	>40	14	14	8
Copper	ppm	ASTM D5185m	>330	<u> </u>	▲ 522	5 40
Tin	ppm	ASTM D5185m	>15	3	3	2
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	21	21	55
Barium	ppm	ASTM D5185m	10	0	0	2
Molybdenum	ppm	ASTM D5185m	100	32	30	34
Manganese	ppm	ASTM D5185m		3	3	3
Magnesium	ppm	ASTM D5185m	450	551	544	527
Calcium	ppm	ASTM D5185m	3000	1075	977	989
Phosphorus	ppm	ASTM D5185m	1150	692	673	651
Zinc	ppm	ASTM D5185m	1350	832	648	780
Sulfur	ppm	ASTM D5185m	4250	1879	1777	1920
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4 8	43	4 3
Sodium	ppm	ASTM D5185m	>44	40	37	41
Potassium	ppm	ASTM D5185m	>20	2	0	1
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.8	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.0	25.9	23.8
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.3	26.2	23.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.67	5.90	7.15
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