

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



CATERPILLAR CHALLENGER 55 6NN220 Component **Diesel Engine**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

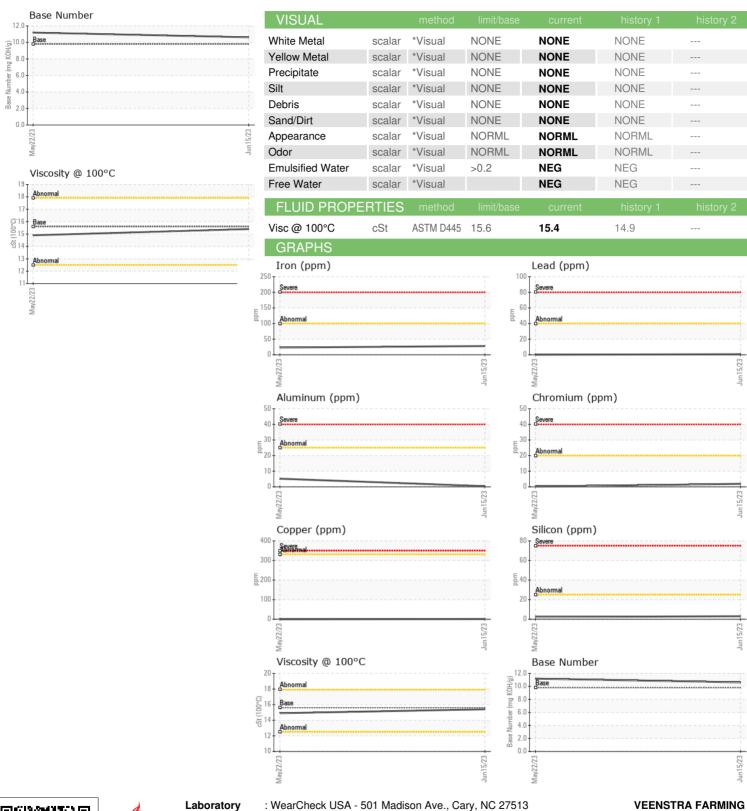
Fluid Condition

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

	DON UD 15W40 /	OTC					
O CANADA DU	RON HP 15W40 (Q15)		May2023	Jun2023		
	SAMPLE INFOR	MATION	method	limit/base	current	history 1	history
	Sample Number		Client Info		PCA0081023	PCA0081080	
terval to monitor.	Sample Date		Client Info		15 Jun 2023	22 May 2023	
	Machine Age	hrs	Client Info		17538	17287	
ormal.	Oil Age	hrs	Client Info		251	247	
	Oil Changed		Client Info		Changed	Changed	
ntamination in the	Sample Status				NORMAL	NORMAL	
	CONTAMINAT	ION	method	limit/base	current	history 1	history
re is suitable	Fuel		WC Method	>5	<1.0	<1.0	
condition of the	Glycol		WC Method		NEG	NEG	
	WEAR METAL	S	method	limit/base	current	history 1	history
	Iron	ppm	ASTM D5185m	>100	28	23	
	Chromium	ppm	ASTM D5185m		2	<1	
	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium		ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m			5	
		ppm			<1		
	Lead	ppm	ASTM D5185m	>40	<1	0	
	Copper	ppm	ASTM D5185m		<1	0	
	Tin	ppm	ASTM D5185m	>15	<1	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	Cadmium	ppm	ASTM D5185m		0	0	
	ADDITIVES		method	limit/base	current	history 1	history
	Boron	ppm	ASTM D5185m		6	44	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		61	65	
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m		921	879	
	Calcium	ppm	ASTM D5185m		1108	1159	
	Phosphorus	ppm	ASTM D5185m		1016	953	
	Zinc	ppm	ASTM D5185m		1205	1174	
	Sulfur	ppm	ASTM D5185m		2992	3482	
	CONTAMINAN	ITS	method	limit/base	current	history 1	history
	Silicon	ppm	ASTM D5185m	>25	3	2	
	Sodium	ppm	ASTM D5185m		<1	2	
	Potassium	ppm	ASTM D5185m	>20	1	0	
	INFRA-RED		method	limit/base	current	history 1	history
	Soot %	%	*ASTM D7844	>3	2.3	2	
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	8.0	
	Sulfation	Abs/.1mm	*ASTM D7415		22.8	22.5	
	FLUID DEGRA	DATION	method	limit/base	current	history 1	history
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	15.2	



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Laboratory Sample No. Lab Number **Unique Number**

: 05890399

: PCA0081023 : 10546209 Test Package : MOB 2

Received Diagnosed Diagnostician

: 05 Jul 2023 : 06 Jul 2023 : Wes Davis

VEENSTRA FARMING 15861 SEXTON RD ESCALON, CA US 95320

Contact: DEREK VEENSTRA KEREKVEENSTRA@AOL.COM T:

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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