

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL





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

PETRO CANADA DUF

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.

ON HP 15W40 (-	QTS)					
`				May2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0081080		
Sample Date		Client Info		22 May 2023		
Machine Age	hrs	Client Info		17287		
Oil Age	hrs	Client Info		247		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINA [*]	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	23		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	5		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	0		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		44		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		65		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		879		
Calcium	ppm	ASTM D5185m		1159		
Phosphorus	ppm	ASTM D5185m		953		
Zinc	ppm	ASTM D5185m		1174		
Sulfur	ppm	ASTM D5185m		3482		
CONTAMINAL	NTS	method	limit/base	current	history1	history?
Silicon	ppm	ASTM D5185m	>25	2		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2		
Nitration	A b a / a-re	*ACTM D7C04	. 20	0.0		

Nitration

Sulfation

Oxidation

Abs/cm *ASTM D7624 >20

FLUID DEGRADATION method

Base Number (BN) mg KOH/g ASTM D2896 9.8

Abs/.1mm *ASTM D7415 >30

Abs/.1mm *ASTM D7414 >25

8.0

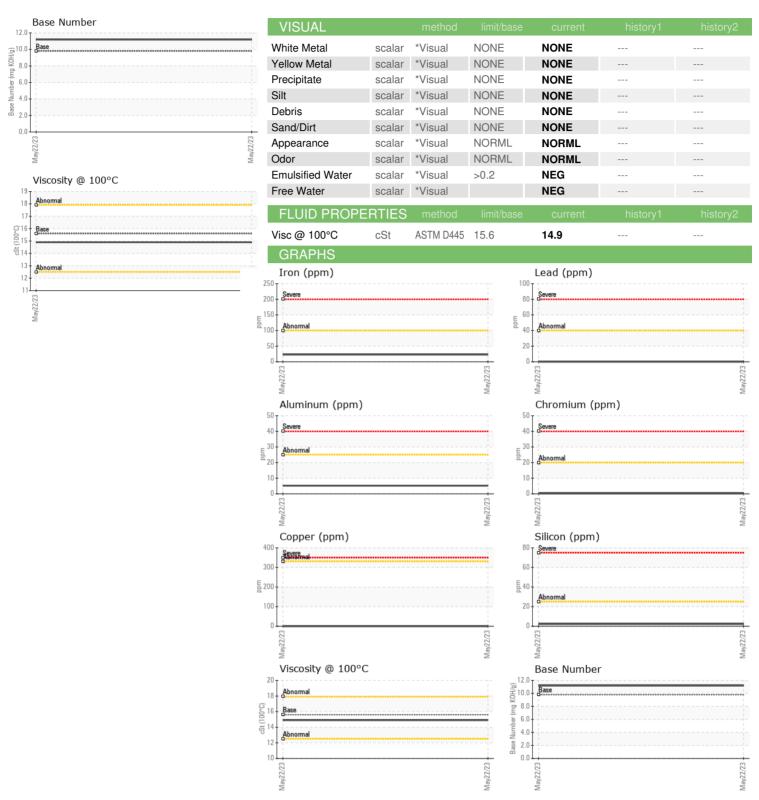
22.5

15.2

11.19



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number Unique Number Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0081080 Received : 05860971 Diagnosed : 10495436

: Wes Davis Diagnostician

: 31 May 2023 : 01 Jun 2023

US 95320 Contact: DEREK VEENSTRA KEREKVEENSTRA@AOL.COM T:

VEENSTRA FARMING

15861 SEXTON RD

ESCALON, CA

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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