

## **OIL ANALYSIS REPORT**

Sample Rating Trend NORMAL



CATERPILLAR 325F 2448 Component **Diesel Engine** Fluid

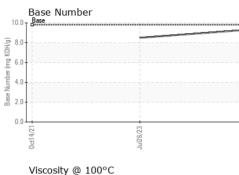
**EXCAVATOR** 

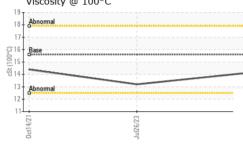
PETRO CANADA DURON HP 15W40 (--- GAL)

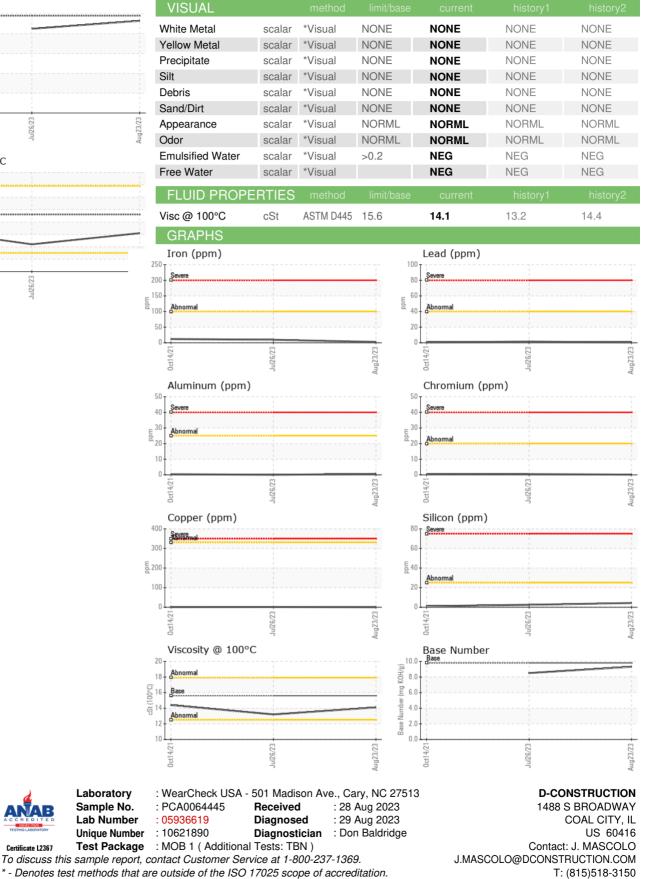
			0c	12021	Jul2023 Aug20		
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PCA0064445	PCA0064267	PCA0046799
Resample at the next service interval to monitor. (	Sample Date		Client Info		23 Aug 2023	26 Jul 2023	14 Oct 2021
Customer Sample Comment: Engine Oil )	Machine Age	hrs	Client Info		5971	5679	3276
Wear	Oil Age	hrs	Client Info		5971	5679	0
All component wear rates are normal.	Oil Changed		Client Info		N/A	N/A	N/A
Contamination	Sample Status				NORMAL	NORMAL	NORMAL
There is no indication of any contamination in the oil.	CONTAMINAT	ION	method	limit/base	current	history1	history2
Fluid Condition	Fuel		WC Method	>5	<1.0	<1.0	<1.0
The BN result indicates that there is suitable	Glycol		WC Method		NEG	NEG	NEG
alkalinity remaining in the oil. The condition of the oil is suitable for further service.	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>100	3	10	12
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	<1	0	<1
	Lead	ppm	ASTM D5185m	>40	<1	2	<1
	Copper	ppm	ASTM D5185m	>330	<1	1	<1
	Tin	ppm	ASTM D5185m	>15	0	0	<1
	Antimony	ppm	ASTM D5185m				0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		10	3	6
	Barium	ppm	ASTM D5185m		2	0	0
	Molybdenum	ppm	ASTM D5185m		61	47	60
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		923	771	844
	Calcium	ppm	ASTM D5185m		1125	1322	1145
	Phosphorus	ppm	ASTM D5185m		1056	966	1011
	Zinc	ppm	ASTM D5185m		1220	1182	1122
	Sulfur	ppm	ASTM D5185m		3399	3445	2633
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	2	1
	Sodium	ppm	ASTM D5185m		0	<1	0
	Potassium	ppm	ASTM D5185m	>20	<1	<1	2
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.2	0.6	0.6
	Nitration	Abs/cm	*ASTM D7624		4.7	6.6	6.8
	Sulfation		*ASTM D7415		17.4	19.0	19.7
	FLUID DEGRAI			limit/base		history1	history2
	Oxidation		*ASTM D7414	>25	12.8	13.5	14.7
	Base Number (BN)						
	base Number (BN)	nig KOH/g	ASTIVI D2896	9.0	9.3	8.5	



## **OIL ANALYSIS REPORT**







\* - 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)

Certificate L2367

Laboratory

Sample No.

Lab Number

F: