

OIL ANALYSIS REPORT

Oil Age

Fuel

Water

Iron

Nickel

Silver

Lead

Tin

Copper

Antimony

Vanadium

Beryllium

Cadmium

Boron

Barium

Calcium

Zinc

Sulfur

Lithium

Silicon

Sodium

Potassium

ppm

ASTM D5185(m)

>20

Titanium

Aluminum

Area BD SHOP 300215 Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (40 LTR)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

🔺 Wear

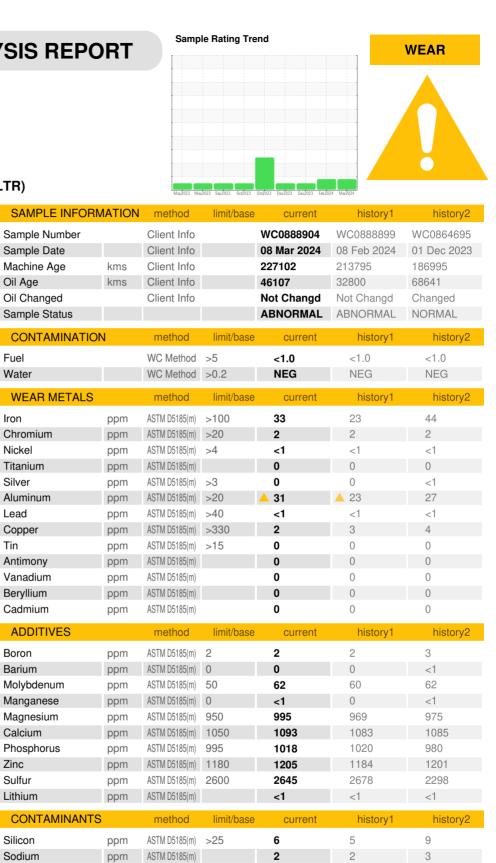
Aluminum ppm levels are abnormal. Piston wear is indicated.

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 oil is no longer serviceable as a result of the abnormal and/or severe wear.



Glycol	%	ASTM D7922*		0.0	0.0	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.9	0.6	1
Nitration	Abs/cm	ASTM D7624*	>20	8.9	7.8	9.7
Nitration(Diff)	Abs/cm	ASTM E2412*		11.1	7.8	
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.6	19.8	22.2
Sulfation(Diff)	Abs/cm	ASTM E2412*		4	2.3	

8

8

33



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limit/base

current

current

15.7

10.9

7.69

NEG

NEG

method

Abs/.1mm ASTM D7414* >25

Abs/cm ASTM E2412*

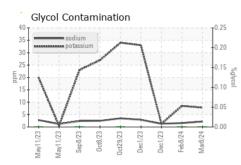
mg KOH/g ASTM D2896*

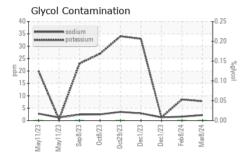
FLUID DEGRADATION

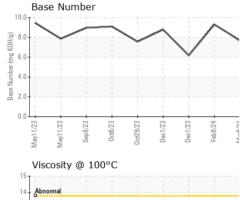
Oxidation

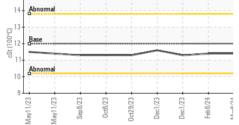
Oxidation(Diff)

Base Number (BN)









	VISUAL				method	ł	limit/base	
	Emulsified Water Free Water		scalar scalar		Visual* Visual*		>0.2	
	FLUID PROPE	RTI	ES		method	ł	limit/k	base
	Visc @ 100°C		cSt	ļ	ASTM D7279	(m)	12.00	
	GRAPHS							
2!	Iron (ppm)							10
20	00 Severe			_				8
1!	50 -							mqq
⁵ 10	00 - Abnormal			-	1			± 4
į	50	-				-	_	2
	May11/23	0ct8/23 +	0ct29/23 -	Dec1/23	Dec1/23	Feb8/24 +	Mar8/24	
,	👝 — Aluminum (ppn	n)	0					
	50 Severe	1				1		5
	40 - 0 30 -							4
m do	20 Abnormal	-	-	1		1		udd 2
	10				\setminus /			1
		23	53	23		24	24	
	May11 May11	0ct8/23	0ct29/23	Dec1/23	Dec1/23	Feb 8/24	Mar8/24	
4(Copper (ppm)							8
30	Abnoima 00 -			-				6
20	00-							Wdd 4
	DO -							2
	0							-
	1/23	0ct8/23 -	0ct29/23 -	Dec1/23 -	Dec1/23 -	Feb 8/24 -	Mar8/24	
	Z Z		0	Ď	D	Æ	W	
	Viscosity @ 100					1		10.
	14 Abnormal							KOH/g)
cSt (100°C)	12 Base		1			-		ber (mg
	11- Abnormal							Base Number (mg KOH/g)
	9			-		-		ю 2. 0.
	May11/23 May11/23 Sep8/23	0ct8/23	0ct29/23	Dec1/23	Dec1/23	Feb8/24	Mar8/24 -	2.
	S Ma	0	Ő			LL.	2	

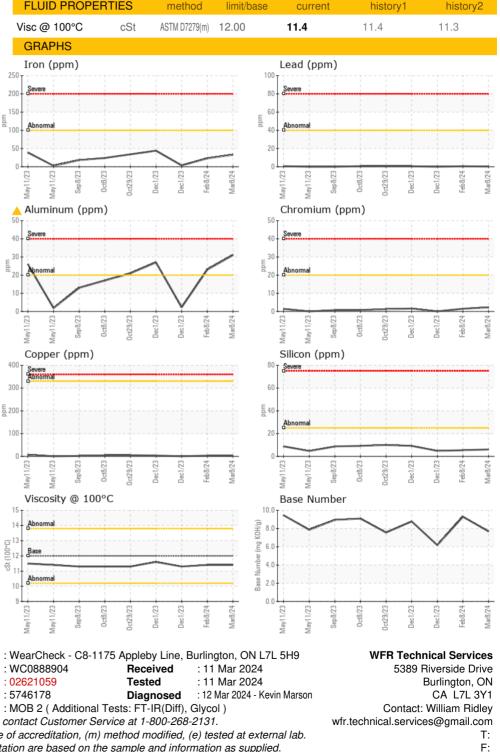
Received

Diagnosed

Tested

Test Package : MOB 2 (Additional Tests: FT-IR(Diff), Glycol)

: WC0888904



history1

history1

14.8

10.3

9.30

NEG

NEG

history2

history2

17.7

6.18

NEG

NEG

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

CALA

ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

Lab Number : 02621059

Unique Number : 5746178