

# **OIL ANALYSIS REPORT**

Sample Rating Trend



422 (S/N K6K00361)

Diesel Engine

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

## DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

R)		Au	2021	Apr2022 Dec20	23	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0044196	PCA0044222	PCA0044208
Sample Date		Client Info		05 Dec 2023	11 Apr 2022	13 Aug 2021
Machine Age	hrs	Client Info		13767	12058	11653
Oil Age	hrs	Client Info		576	405	326
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	16	19	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	8	0
Lead	ppm	ASTM D5185m	>40	2	2	2
Copper	ppm	ASTM D5185m	>330	0	4	<1
Tin	ppm	ASTM D5185m	>15	<1	1	0
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		3	6	9
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		60	60	61
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		933	1058	947
Calcium	ppm	ASTM D5185m		1096	1195	1067
Phosphorus	ppm	ASTM D5185m		1100	1178	1031
Zinc	ppm	ASTM D5185m		1257	1300	1191
Sulfur	ppm	ASTM D5185m		3059	3074	2734
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	17	2
Sodium	ppm	ASTM D5185m		2	5	2
Potassium	ppm	ASTM D5185m	>20	0	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.2	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	20.2	20.4
FLUID DEGRAI		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	15.1	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.07	9.94	8.99
:11:53) Rev: 1				Contact/Location: RON INGRAM - GARDAD		

Contact/Location: RON INGRAM - GARDAD



(B/HOX Bul) 8.0

6.0

4 ( Base

0.0

Bas

# **OIL ANALYSIS REPORT**

scalar

scalar

scalar

\*Visual

\*Visual

\*Visual

scalar \*Visual

NONE

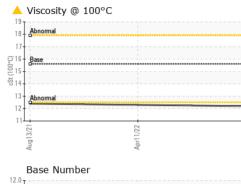
VISUAL

White Metal

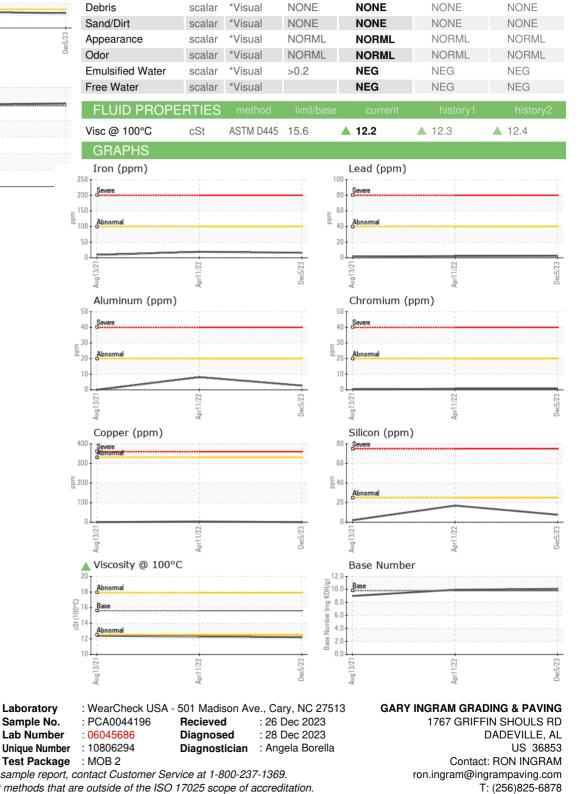
Yellow Metal

Precipitate

Silt



Apr11/22





Certificate L2367 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)

Report Id: GARDAD [WUSCAR] 06045686 (Generated: 12/28/2023 18:11:54) Rev: 1

Contact/Location: RON INGRAM - GARDAD

F:

NONE

NONE

NONE

NONE