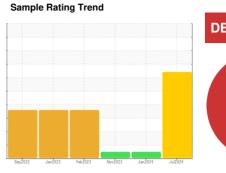


# **OIL ANALYSIS REPORT**

# 5 Utilities/031 Water Pumping/Gearbox/P Pump/751A #1 Fire Pump 31EP751A #1 Fire Pump Engine

**Diesel Engine** 

PETRO CANADA DURON UHP E6 10W40 (--- LTR)





## **DIAGNOSIS**

### Recommendation

Due to this condition we recommend the following action... We advise an early resample to confirm this situation. NOTE: The current sample results do not match this units historical trend, indicating the sample may not be from this component/unit.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

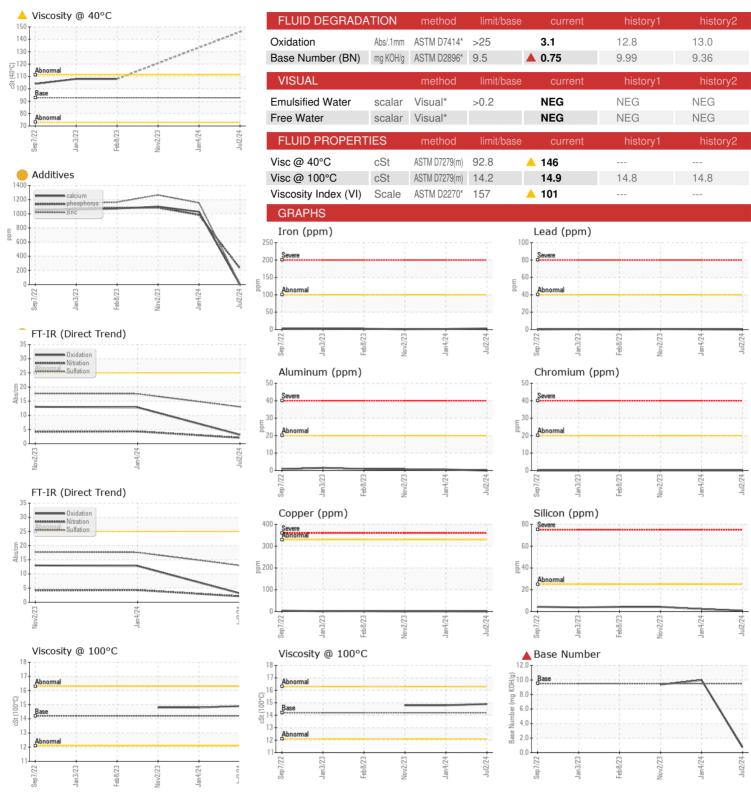
### ▲ Fluid Condition

The low BN value indicates relatively little reserve alkalinity remaining in this oil. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0957476	WC0902167	WC0813226
Sample Date		Client Info		02 Jul 2024	04 Jan 2024	02 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	3	2	1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	<1
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<b>5</b> 4	1	1
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	57	62
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	80	<1	955	1032
Calcium	ppm	ASTM D5185(m)	2400	<u> </u>	1028	1102
Phosphorus	ppm	ASTM D5185(m)	750	<b>229</b>	984	1087
Zinc	ppm	ASTM D5185(m)	840	<u> </u>	1155	1265
Sulfur	ppm	ASTM D5185(m)	2130	<b>4276</b>	2552	2795
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<1	2	4
Sodium	ppm	ASTM D5185(m)		1	1	2
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	2.1	4.3	4.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	13.0	17.6	17.7



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Lab Number : 02646670

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0957476

Unique Number : 5812222 Diagnosed

Test Package : MOB 2 ( Additional Tests: KV40, VI ) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Received

**Tested** 

: 09 Jul 2024

: 11 Jul 2024

: 15 Jul 2024 - Kevin Marson

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.

Petro Canada Lubricants Inc.

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Contact: Martin Wagenaar martin.wagenaar@HFSinclair.com

T: (905)403-5682 F: (905)822-6025

Submitted By: ?