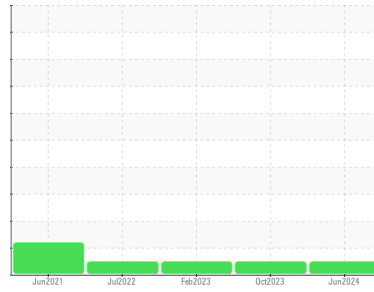


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**143 (S/N J406723)**

Component  
**Diesel Engine**

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### Wear

All component wear rates are normal.

### 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 condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0044252</b>	PCA0044176	PCA0044270
Sample Date	Client Info			<b>17 Jun 2024</b>	14 Oct 2023	15 Feb 2023
Machine Age	mls	Client Info		<b>185389</b>	159643	133675
Oil Age	mls	Client Info		<b>25746</b>	25968	25227
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>34</b>	31	28
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	2	2
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>8</b>	10	9
Lead	ppm	ASTM D5185m	>40	<b>5</b>	5	3
Copper	ppm	ASTM D5185m	>330	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

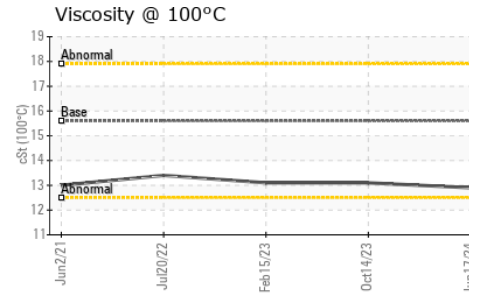
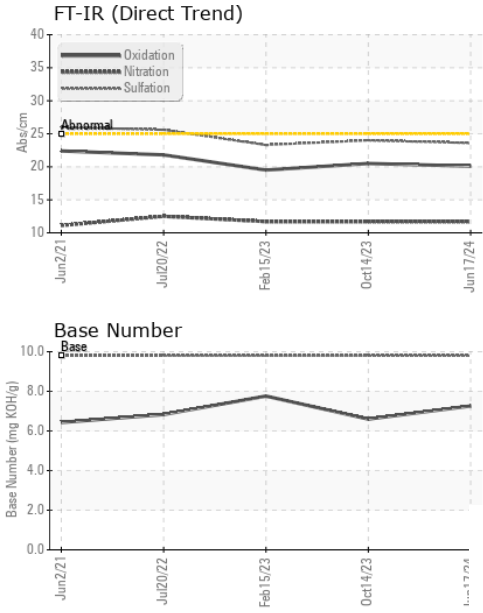
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>68</b>	61	59
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>1001</b>	967	928
Calcium	ppm	ASTM D5185m		<b>1190</b>	1068	1093
Phosphorus	ppm	ASTM D5185m		<b>1022</b>	1058	941
Zinc	ppm	ASTM D5185m		<b>1340</b>	1230	1237
Sulfur	ppm	ASTM D5185m		<b>2807</b>	2596	2832

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>9</b>	13	12
Sodium	ppm	ASTM D5185m		<b>2</b>	4	1
Potassium	ppm	ASTM D5185m	>20	<b>20</b>	22	17

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.7</b>	11.7	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.6</b>	24.0	23.3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.1</b>	20.5	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>7.26</b>	6.60	7.76

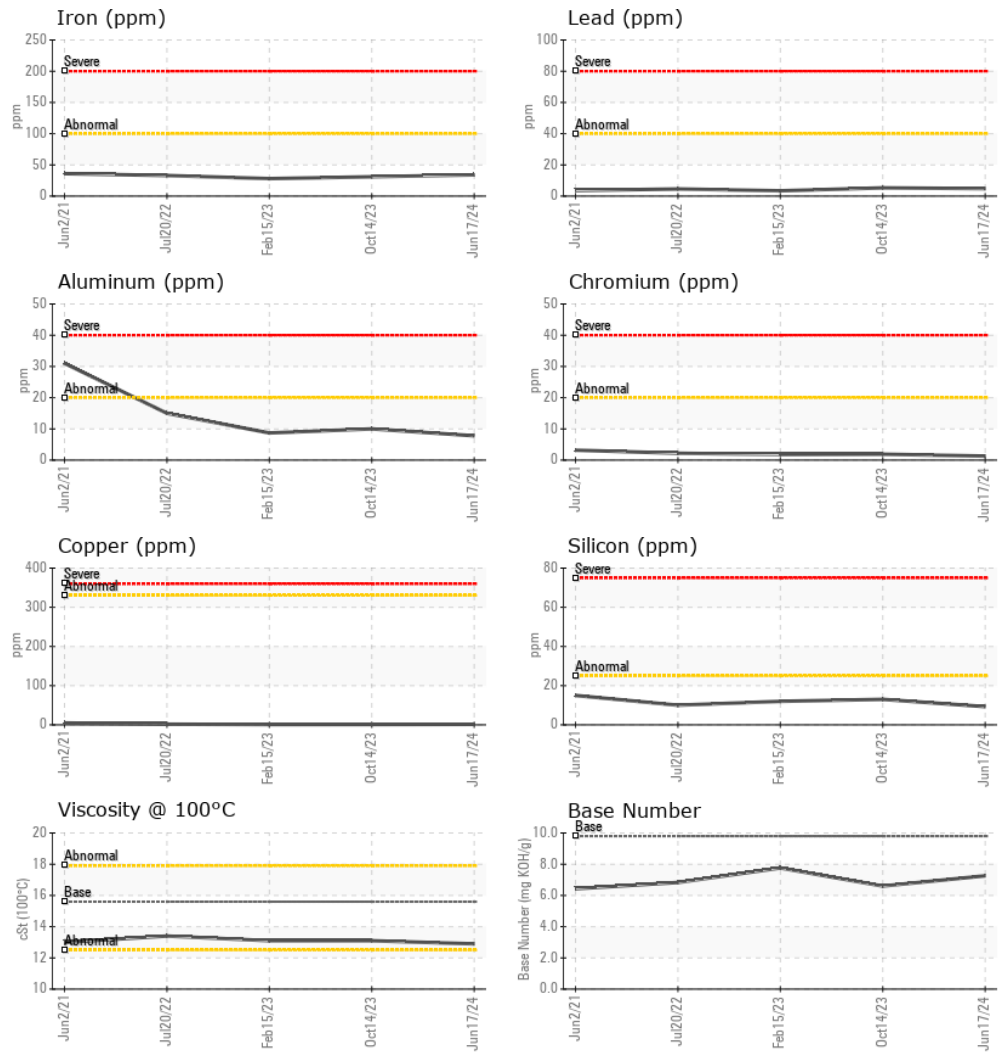
# OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.6	<b>12.9</b>	13.1	13.1

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0044252      **Received** : 05 Jul 2024  
**Lab Number** : 06229290      **Tested** : 08 Jul 2024  
**Unique Number** : 11112783      **Diagnosed** : 08 Jul 2024 - Wes Davis  
**Test Package** : MOB 2

**GARY INGRAM GRADING & PAVING**  
 1767 GRIFFIN SHOULS RD  
 DADEVILLE, AL  
 US 36853  
 Contact: RON INGRAM  
 ron.ingram@ingrampaving.com  
 T: (256)825-6878  
 F:

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)