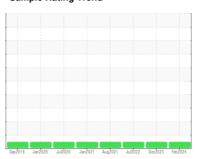


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# **International 4400**

Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (18 G

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

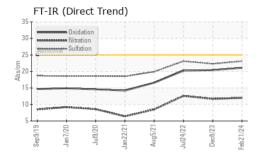
## **Fluid Condition**

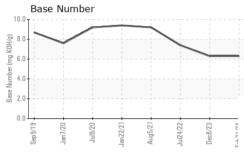
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

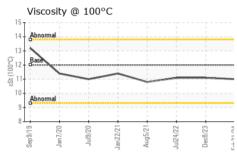
QTS)		Sep2019	lan 2020 Jul 2020 Jan 20	021 Aug2021 Jul2022 Dec2023	Feb2024			
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		PCA0112493	PCA0091615	PCA0045444		
Sample Date		Client Info		21 Feb 2024	08 Dec 2023	24 Jul 2022		
Machine Age	mls	Client Info		83301	74100	59796		
Oil Age	mls	Client Info		9201	14304	9817		
Oil Changed		Client Info		Changed	Changed	Changed		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2		
Fuel		WC Method	>3.0	<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 D5185m	>130	35	34	36		
Chromium	ppm	ASTM D5185m		<1	<1	<1		
Nickel	ppm	ASTM D5185m	>4	0	0	0		
Titanium	ppm	ASTM D5185m		<1	<1	0		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m		6	4	13		
Lead	ppm	ASTM D5185m	>20	<1	0	0		
Copper	ppm	ASTM D5185m		2	1	9		
Tin	ppm	ASTM D5185m	>4	0	0	0		
Antimony	ppm	ASTM D5185m						
Vanadium	ppm	ASTM D5185m		<1	0	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	2	<1	1	4		
Barium	ppm	ASTM D5185m	0	0	0	2		
Molybdenum	ppm	ASTM D5185m	50	63	62	60		
Manganese	ppm	ASTM D5185m	0	<1	0	<1		
Magnesium	ppm	ASTM D5185m	950	999	934	885		
Calcium	ppm	ASTM D5185m	1050	1199	1039	1065		
Phosphorus	ppm	ASTM D5185m	995	1058	823	923		
Zinc	ppm	ASTM D5185m	1180	1343	1186	1201		
Sulfur	ppm	ASTM D5185m	2600	3517	2729	3038		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	4	4	5		
Sodium	ppm	ASTM D5185m		3	0	1		
Potassium	ppm	ASTM D5185m	>20	8	5	19		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>6	0.7	0.6	0.6		
Nitration	Abs/cm	*ASTM D7624	>20	12.0	11.7	12.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	22.3	23.1		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	20.4	20.2		
Base Number (BN)	mg KOH/g	ASTM D2896		6.3	6.3	7.4		

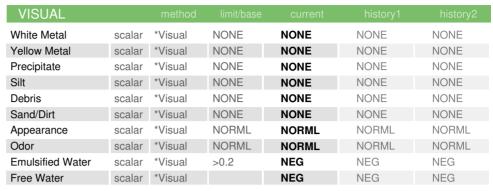


# **OIL ANALYSIS REPORT**



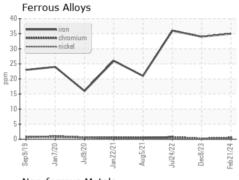


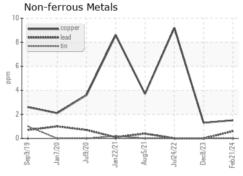


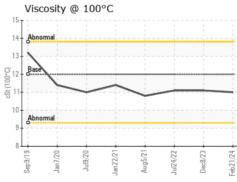


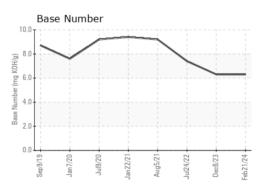
FLUID PROPE	EKITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	12.00	11.0	11.1	11.1

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

Lab Number : 06215282

Test Package : FLEET

: PCA0112493 Unique Number : 11088146

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024 **Tested** 

: 21 Jun 2024 Diagnosed : 21 Jun 2024 - Wes Davis

ICSB370 - Alton 4525 North Alby Road Godfrey, IL

US 62035 Contact: Chad Ingold c.ingold@illinois-central.com

T: (618)466-5400

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)