WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

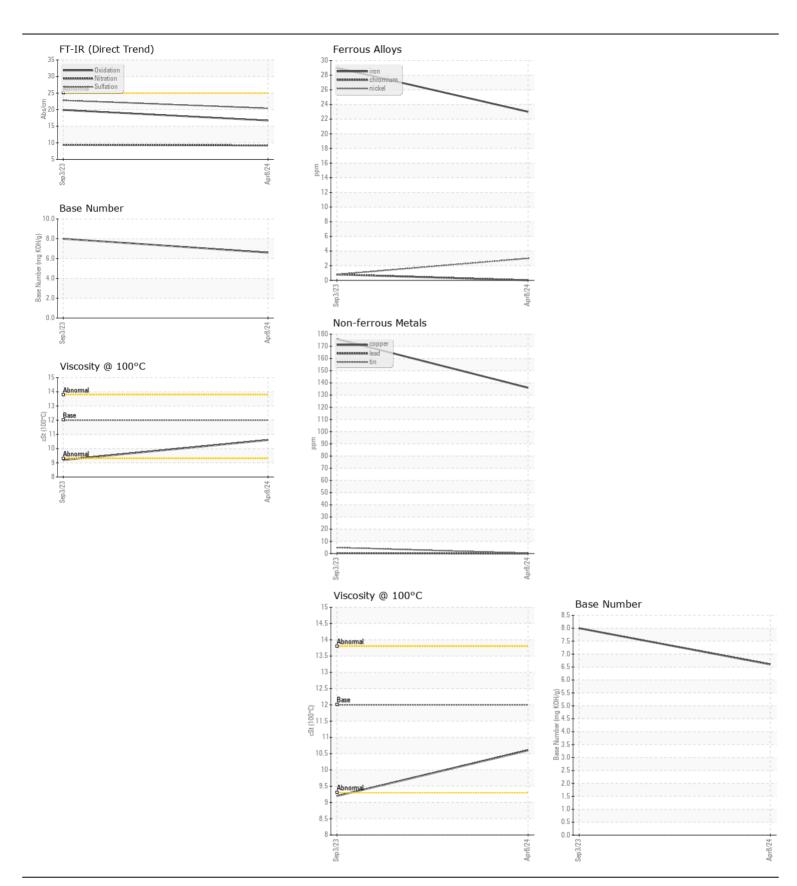
Machine Id **2227115**

ZZZ/IIJ Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		PCA0123165	PCA0101162	
	Sample Date		Client Info		08 Apr 2024	03 Sep 2023	
	Machine Age	mls	Client Info		20000	19100	
	Oil Age	mls	Client Info		20000	15000	
	Filter Age	mls	Client Info		20000	15000	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
VEAR	Iron	ppm	ASTM D5185m	>100	23	29	
	Chromium	ppm	ASTM D5185m		0	<1	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		3	<1	
	Titanium	ppm	ASTM D5185m	7 7	14	<1	
	Silver	ppm	ASTM D5185m	~3	0	17	
	Aluminum	ppm	ASTM D5185m		5	29	
	Lead			>40	0	<1	
	Copper	ppm	ASTM D5185m		136	176	
	Tin	ppm	ASTM D5185m		<1	5	
	Vanadium	ppm	ASTM D5185m	713	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
<u></u>			visuai	NONL	·····	INOINL	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	<u></u> 64	
	Potassium	ppm	ASTM D5185m	>20	15	82	
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	0.6	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.3	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.4	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	22.8	
	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	
LUD CONDITION	0 "		40TM DE405			4	
LUID CONDITION	Sodium	ppm	ASTM D5185m ASTM D5185m	2	2	4 228	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m		5 0	0	
	Molybdenum	ppm			53	117	
	•	ppm	ASTM D5185m ASTM D5185m		0	4	
	Manganese	ppm					
	Magnesium	ppm	ASTM D5185m		868	703	
	Calcium	ppm		1050	1407	1546	
	Phosphorus	ppm	ASTM D5185m		1026	684	
	Zinc	ppm		1180	1299	835	
	Sulfur	ppm	ASTM D5185m		3170	2861	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	19.9	
	Base Number (BN)	0 0	ASTM D2896	10.00	6.6	8.0	
	Visc @ 100°C	cSt	ASTM D445	12.00	10.6	9.2	







Certificate L2367

Laboratory Sample No.

Lab Number : 06158756 Unique Number: 10994179 Test Package : FLEET

: PCA0123165

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Apr 2024 **Tested** : 25 Apr 2024

Diagnosed

: 25 Apr 2024 - Wes Davis

US 21802 Contact: RICHARD O'NEAL richard.oneal@perdue.com T: (410)543-3628

PERDUE FARMS - SALISBURY

7036 ZION CHURCH ROAD

SALISBURY, MD

* - 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) F: (410)341-2164 Contact/Location: RICHARD O'NEAL - PERSALMD