

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

FUEL Machine Id 332

Component Diesel Engine

PETRO CANADA DURON SHP 10W30 (38 QTS)

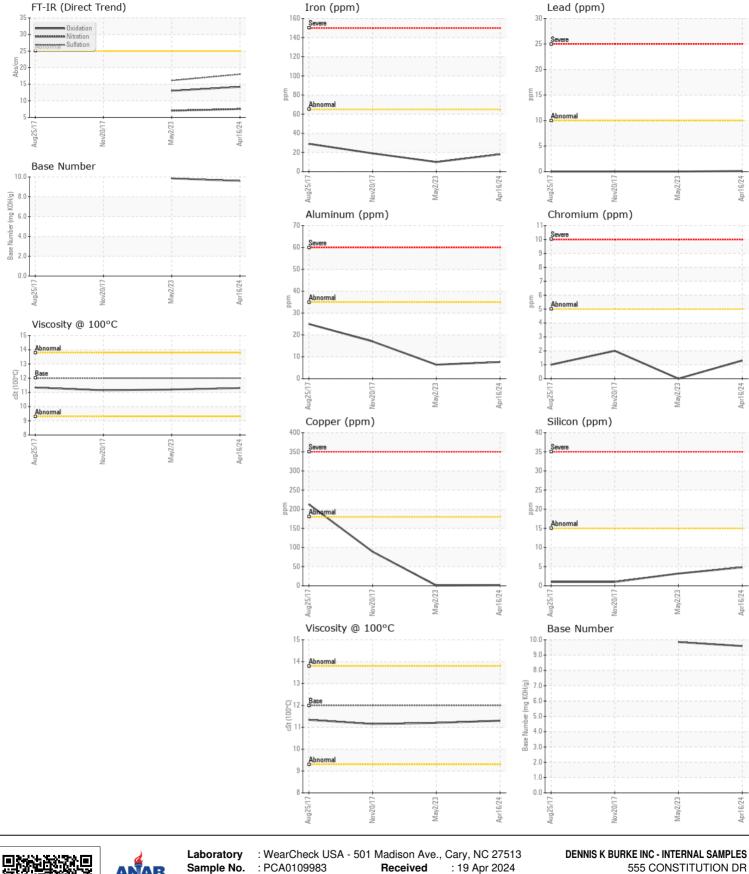
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		PCA0109983	PCA0090726	PCA71227658
	Sample Date		Client Info		16 Apr 2024	02 May 2023	20 Nov 201
	Machine Age	mls	Client Info		292673	261214	121430
	Oil Age	mls	Client Info		16000	12000	401584
	Filter Age	mls	Client Info		16000	12000	401584
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	ABNORMAI
WEAR	Iron	ppm	ASTM D5185m	>65	18	10	19
	Chromium	ppm	ASTM D5185m	>5	1	0	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		1	0	
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		8	6	17
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		2	<1	89
	Tin	ppm	ASTM D5185m		- <1	0	5
	Vanadium	ppm	ASTM D5185m	20	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	0'''			45			
CONTAMINATION	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m		5 7	3 6	1
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method			<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 0			
	Nitration				0.3 7.5	0.3	0.5
		Abs/cm	*ASTM D7624	>20		7.0	
	Sulfation	Abs/.1mm	*ASTM D7415		18.0	16.1	
	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 Emulsified Water	scalar scalar	*Visual *Visual	NORML	NORML NEG	NORML NEG	
FLUID CONDITION							
	Sodium	ppm	ASTM D5185m	-	0	4	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		10	8	6
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		65	60	62
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m		908	927	935
	Calcium	ppm	ASTM D5185m		1070	1187	1180
	Phosphorus	ppm	ASTM D5185m	995	996	1004	955
	Zinc	ppm	ASTM D5185m	1180	1160	1191	1143
	Sulfur	ppm	ASTM D5185m	2600	3072	3602	2652
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	13.0	
	Base Number (BN)	mg KOH/g	ASTM D2896		9.59	9.85	
	Vian @ 100°C	0°t	ACTM D445	12.00	11.0	11.0	11 15

Visc @ 100°C cSt ASTM D445 12.00

11.2

11.15

11.3





Test Package : MOB 2 Contact: GREG DUNKER 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. F: (617)889-6422 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Tested

Diagnosed

: 22 Apr 2024

: 22 Apr 2024 - Wes Davis

Report Id: DENTAU [WUSCAR] 06155257 (Generated: 04/23/2024 00:40:37) Rev: 1

Lab Number : 06155257

Unique Number : 10990680

Submitted By: JOHN MEDEIROS Page 2 of 2

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