WEAR
CONTAMINATION
FLUID CONDITION

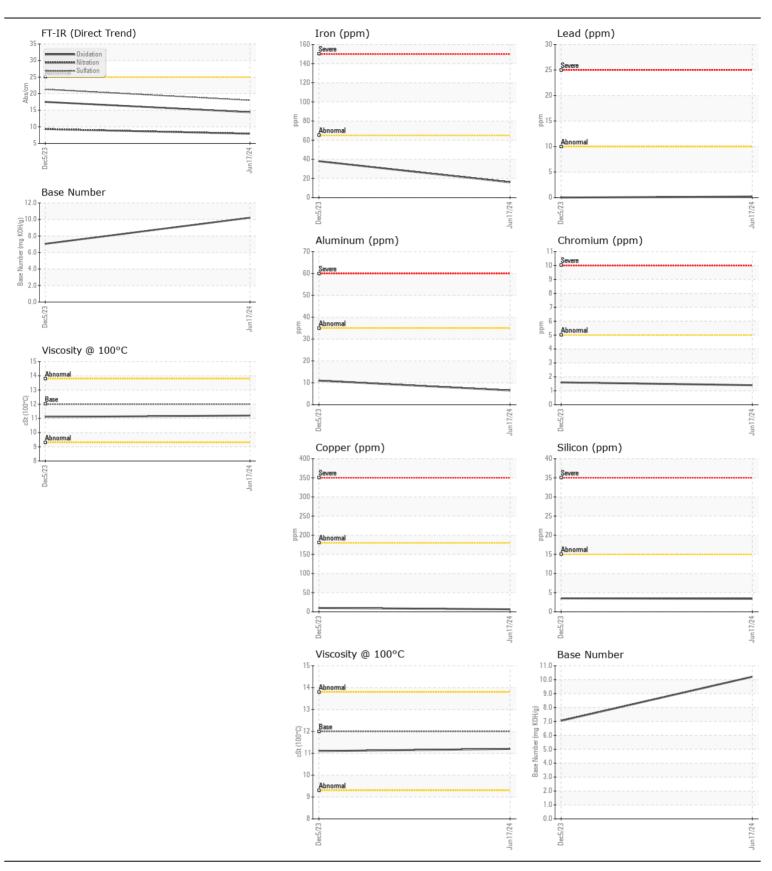
ABNORMAL NORMAL NORMAL

FUEL Machine Id 337

Diesel Engine

PETRO CANADA DURON SHP 10W30 (42 QTS)

DECOMMENDATION.	<b>-</b> .			11 1:00			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		PCA0098657	PCA0109587	
	Sample Date		Client Info		17 Jun 2024	05 Dec 2023	
	Machine Age	mls	Client Info		213087	197515	
	Oil Age	mls	Client Info		16000	16000	
	Filter Age	mls	Client Info		16000	16000	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>65	16	38	
Moderate concentration of visible metal present. All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	1	2	
	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m	>5	<1	0	
	Silver	ppm	ASTM D5185m	>2	<1	0	
	Aluminum	ppm	ASTM D5185m	>35	6	11	
	Lead	ppm	ASTM D5185m	>10	<1	0	
	Copper	ppm	ASTM D5185m	>180	6	10	
	Tin	ppm	ASTM D5185m	>8	<1	0	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	▲ MODER	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTABINATION	0.11.		AOTM DEGOE	45		4	
CONTAMINATION	Silicon	ppm	ASTM D5185m		3	4	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		6	6	
	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.3	0.6	
	Nitration	Abs/cm	*ASTM D7624	>20	7.9	9.3	
	Sulfation	Abs/.1mm	*ASTM D7415		18.0	21.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris Sand/Dirt	scalar	*Visual *Visual	NONE	NONE NONE	NONE NONE	
		scalar	*Visual	NORML	NORML	NORML	
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
<u></u>			visuai				
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	3	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	2	8	4	
	Barium	ppm	ASTM D5185m	0	0	0	
	Molybdenum	ppm	ASTM D5185m	50	59	63	
	Manganese	ppm	ASTM D5185m	0	<1	<1	
	Magnesium	ppm	ASTM D5185m	950	939	938	
	Calcium	ppm	ASTM D5185m	1050	1115	1126	
	Phosphorus	ppm	ASTM D5185m	995	959	936	
	Zinc	ppm	ASTM D5185m	1180	1244	1223	
	Sulfur	ppm	ASTM D5185m		2956	2609	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	17.5	
	Base Number (BN)	mg KOH/g			10.21	7.05	
	Visc @ 100°C	cSt	ASTM D445	10.00	11.2	11.1	





Certificate L2367

Report Id: DENTAU [WUSCAR] 06230407 (Generated: 07/10/2024 10:42:52) Rev: 1

Laboratory Sample No.

Lab Number : 06230407 Unique Number : 11113900 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0098657 Received : 08 Jul 2024 **Tested** : 09 Jul 2024

: 10 Jul 2024 - Don Baldridge Diagnosed

555 CONSTITUTION DR TAUNTON, MA US 02780

**DENNIS K BURKE INC - INTERNAL SAMPLES** 

Contact: GREG DUNKER

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)

F: (617)889-6422