

WEAR CONTAMINATION FLUID CONDITION

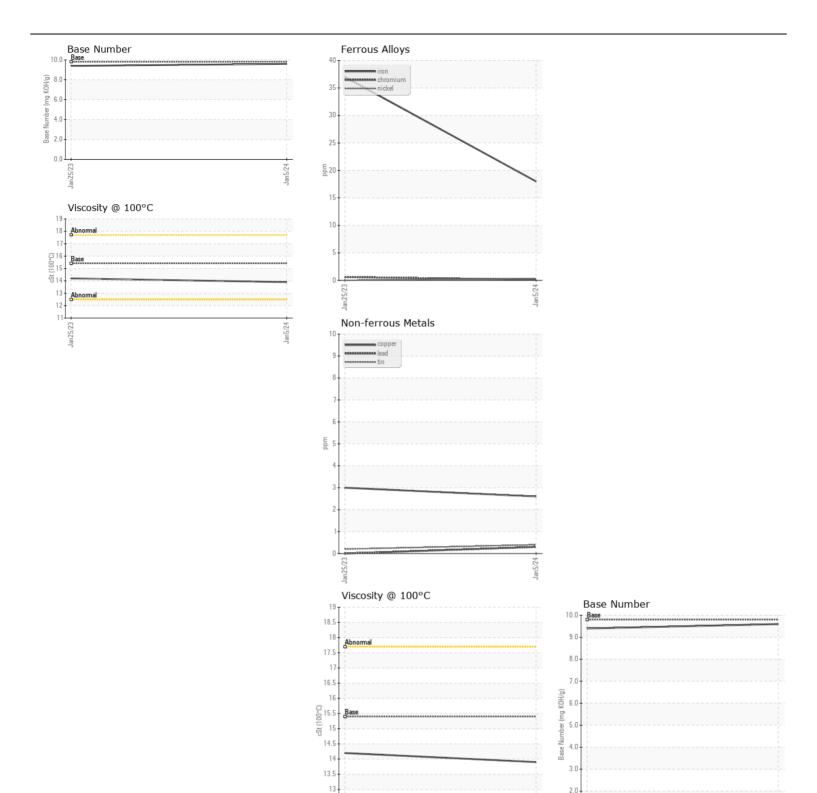
NORMAL NORMAL

Area
NR
Machine Id
[NR] 812

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

OF COMMENDATION	T 4	11014	NA - Ale - al	Line St/Aless		I Patamat	I Catana
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current WC0843767	History1	History
Resample at the next service interval to monitor.	Sample Number Sample Date		Client Info		05 Jan 2024	WC0747793 25 Jan 2023	
	Machine Age	mls	Client Info		10470	9762	
	Oil Age	mls	Client Info		708	9762	
	Filter Age	mls	Client Info		708	9762	
	Oil Changed	11115	Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status		Oliciti IIIIo		NORMAL	NORMAL	
	·····				·····		
WEAR	Iron	ppm	ASTM D5185m	>100	18	37	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m	>4	<1	0	
	Titanium	ppm	ASTM D5185m		1	9	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	11	20	
	Lead	ppm	ASTM D5185m	>40	<1	0	
	Copper	ppm	ASTM D5185m	>330	3	3	
	Tin	ppm	ASTM D5185m	>15	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	nnm	ASTM D5185m	. 25	4	6	
ONTAMINATION	Potassium	ppm	ASTM D5185m		4 26	6 48	
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	<i>></i> 0.∠	NEG	NEG	
	Soot %	%	*ASTM D7844	~ 3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624		5.0	5.7	
	Sulfation	Abs/.1mm	*ASTM D7415		17.1	17.4	
	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	
LUID CONDITION	Sodium	ppm	ASTM D5185m		2	1	
ne BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		14	20	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		59	54	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		968	858	
	Calcium	ppm	ASTM D5185m		1047	1085	
	Phosphorus	ppm	ASTM D5185m		1135	975	
	Zinc	ppm	ASTM D5185m		1305	1168	
	Sulfur	ppm	ASTM D5185m		3348	3672	
	Oxidation	Abs/.1mm	*ASTM D7414		13.3	13.2	
	Base Number (BN)				9.6	9.4	
	Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.2	







Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0843767 Recieved : 17 Jan 2024 : 06063360 : 18 Jan 2024 Diagnosed

Unique Number : 10834742 Diagnostician : Wes Davis Test Package : FLEET

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

12.5 12 11.5

* - 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)

HUMBOLDT TRANSIT AUTHORITY

133 V ST EUREKA, CA US 95501

Contact: KELLY MASTERSON

kelly@hta.org

T:

F: