

OIL ANALYSIS REPORT



Machine Id

RO220246 Component Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

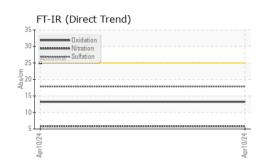
There is no indication of any contamination in the oil.

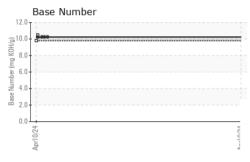
Fluid Condition

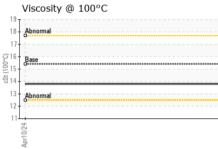
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0098678		
Sample Date		Client Info		10 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAI	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	7		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	4		
Lead	ppm	ASTM D5185m	>40	2		
Copper	ppm	ASTM D5185m	>330	4		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	62		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	1058		
Calcium	ppm	ASTM D5185m	1070	1199		
Phosphorus	ppm	ASTM D5185m	1150	1171		
Zinc	ppm	ASTM D5185m	1270	1422		
Sulfur	ppm	ASTM D5185m	2060	4038		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	9		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	5.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.23		









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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual	2 U.L	NEG		
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8		
GRAPHS						
Iron (ppm)				Lead (ppm)		
²⁵⁰ T			100	T ;		
200 - Severe			80	Severe		
150 - 100 - <mark>Abnormal</mark>			60 E	Abo and		
100 - Abnormal			4 0	Abnormal		-
50 -			20			
0			0	24		24
Apr10/24			Apr10/24	Apr1 0/24		Apr10/24
∝ Aluminum (ppm)			A	⊲ Chromium (p	pm)	4
50 Severe			50	TC		
40 - 0			40	Severe		
30 - Abnormal			E 20	Abnormal		
				- Q		
10-			10	1		
0			0 54			24
Apr10/24			Apr10/24	Apr10/24		Apr10/24
Copper (ppm)				Silicon (ppm)		
⁴⁰⁰ T Severe			80	Severe		
300			60			
200 -			틆 40			
			840	Abnormal		
100-			20			
0			0	5		+
Apr10/24			Apr10/24	Apr10/24		Apr10/24
			A			Ap
Viscosity @ 100°C			12.0	Base Number	-	
18 Abnormal			(B) 10.0	Base		
			(b)(H)(0) B)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)			
16 - Base						
Abnormal			4.0 2.0	t :		
10			²² 0.0			
Apr10/24			Apr10/24 -	Apr10/24 -		Apr10/24 -
Aprl			Apr1	Aprl		Apr1
WearCheck USA - 501	Madiso	n Ave., Cary	, NC 27513	WIN Wa	ste Innovations -	Shop # - Taunton
PCA0098678	Recei	ved : 12	2 Apr 2024			WINTHROP ST
06147565	Teste		Apr 2024			TAUNTON, MA
10977643	Diagn	iosed : 15	Apr 2024 - W	es Davis	2	US 02780
MOB 2 Customer Servir	00 0+ 1 0	00 227 1200	5			ct: Dave Wilson
contact Customer Servic					awiison1@	win-waste.com@ •

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)

Report Id: WINTAU [WUSCAR] 06147565 (Generated: 04/15/2024 09:56:04) Rev: 1

Certificate L2367

Laboratory Sample No. Lab Number **Unique Number Test Package**

> Submitted By: MATT MANOLI Page 2 of 2

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