

OIL ANALYSIS REPORT

Sample Rating Trend



Area Charlestown 543

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

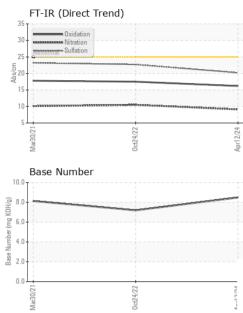
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

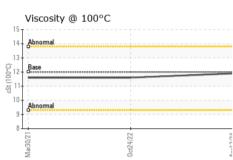
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0104523	PCA0077982	PCA0023277	
Sample Date		Client Info		12 Apr 2024	24 Oct 2022	30 Mar 2021	
Machine Age	mls	Client Info		0	0	285669	
Oil Age	mls	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	23	33	23	
Chromium	ppm	ASTM D5185m	>20	2	6	2	
Nickel	ppm	ASTM D5185m	>2	<1	0	0	
Titanium	ppm	ASTM D5185m	>2	1	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	<1	
Aluminum	ppm	ASTM D5185m	>30	13	38	7	
Lead	ppm	ASTM D5185m	>30	<1	0	<1	
Copper	ppm	ASTM D5185m	>30	4	4	5	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Antimony	ppm	ASTM D5185m				0	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	3	0	6	
Barium	ppm	ASTM D5185m	0	<1	0	0	
Molybdenum	ppm	ASTM D5185m	50	61	62	68	
Manganese	ppm	ASTM D5185m	0	<1	1	<1	
Magnesium	ppm	ASTM D5185m	950	1014	1049	941	
Calcium	ppm	ASTM D5185m	1050	1223	1257	1095	
Phosphorus	ppm	ASTM D5185m	995	1175	1046	981	
Zinc	ppm	ASTM D5185m	1180	1351	1406	1212	
Sulfur	ppm	ASTM D5185m	2600	3455	3453	2314	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	6	6	3	
Sodium	ppm	ASTM D5185m		2	0	0	
Potassium	ppm	ASTM D5185m	>20	3	40	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.8	1.2	1.3	
Nitration	Abs/cm	*ASTM D7624	>20	9.1	10.5	10.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	22.7	23.2	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	17.5	17.8	
Base Number (BN)	mg KOH/g	ASTM D2896		8.48	7.19	8.13	
2:59:18) Rev: 1	Submitted By: MATTHEW PETBOSINO						

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OIL ANALYSIS REPORT





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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.9	11.6	11.6
GRAPHS						
Iron (ppm)				Lead (ppm)		
0 T			80	T		
0 - Severe			60	Severe		
0 - Abnormal			튭.40			
D			20			
	22		24		22	ν Γ
Mar30/2	0ct24/22		Apr12/24	Mar30/2	0ct24/22	ACI CLUM
_ Aluminum (ppm)	0		4	Chromium (p	_	
□ Severe			50			
0+			40	Severe		
Abnormal	\sim		30			
0 - Abhormai			ق ³⁰	Abnormal		
0			10			
				L		
Mar30/21	0ct24/22		Apr12/24	Mar30/21	0ct24/22	40.5 Link
	Oct		Apr	_	_	
Copper (ppm)			50	Silicon (ppm))	
O Severe				Devele		
0-			40	Abnormal		
0 - Abnormal			E 30	T		*********************
0			² 20			
0			10			
0 1 1 2 1 2 1 2 1 2	/22		724	1/2/1	/22 -	20
Mar30/2	0ct24/22		Apr12/24	Mar30/2	0ct24/22	h C/C Land
– Viscosity @ 100°C			-	– Base Numbe	r	
61 ;						
4 Abnormal			(0)H08 8.0 6.0 9.0 gene 8.0 9.0 8.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9			
2 - Base			j 6.0			
			- ² 4.0	+		
⁰ Abnormal				-		
84	2		0.0	4		
Mar30/2	0ct24/22		Apr12/24	Mar30/2	0ct24/22	And 2/24
M	0		Ap	M	õ	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
VearCheck USA - 50				PORTSID	E TRUCK AND AUTO	
CA0104523	Receiv		6 Apr 2024			TERMINAL S
<mark>6150616</mark> 0980694	Testeo Diagn		7 Apr 2024 7 Apr 2024 - W	es Davis	CHARI	ESTOWN, MA US 02129
	Diagn	U3CU . 1/	- AUI 2024 - VV	CO LIAVIS		03 02123
10B 2	Ŭ		1		Contact: BI	RYAN WINTER

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)

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Certificate L2367

Laboratory Sample No. Lab Number Unique Number Test Package

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