

OIL ANALYSIS REPORT

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Sample Rating Trend



Machine Id 607053-3806

Component Diesel Engine

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

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

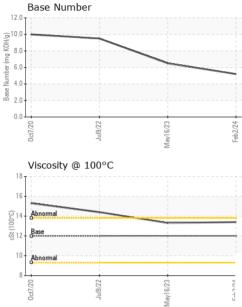
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0045465	GFL0074342	GFL0045452
Sample Date		Client Info		02 Feb 2024	16 May 2023	09 Jul 2022
Machine Age	hrs	Client Info		14027	13136	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Sample Status				NORMAL	SEVERE	NORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	64	72	35
Chromium	ppm	ASTM D5185m	>20	2	1	1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	9	120	4
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	8	21	5
Tin	ppm	ASTM D5185m	>15	<1	A 31	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	71	104	0
Barium	ppm	ASTM D5185m	0	0	0	4
Molybdenum	ppm	ASTM D5185m	50	14	17	70
Manganese	ppm	ASTM D5185m	0	<1	2	<1
Magnesium	ppm	ASTM D5185m	950	169	237	985
Calcium	ppm	ASTM D5185m	1050	1799	1864	1227
Phosphorus	ppm	ASTM D5185m	995	922	950	1089
Zinc	ppm	ASTM D5185m	1180	1144	1159	1353
Sulfur	ppm	ASTM D5185m	2600	3146	3955	3491
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	17	15	4
Sodium	ppm	ASTM D5185m		5	3	<1
Potassium	ppm	ASTM D5185m	>20	1	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.2	0.9
Nitration	Abs/cm	*ASTM D7624	>20	8.9	7.9	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	21.0	21.8
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	16.8	17.0
Base Number (BN)	mg KOH/g	ASTM D2896		5.2	6.5	9.5
(00-04) David				0		

Submitted By: TECHNICIAN ACCOUNT



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	VISUAL		method				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	LIGHT	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Feb2/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Feb	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG
	FLUID PROP	ERTIES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	12.00	13.4	13.3	14.4
-	GRAPHS						
	Ferrous Alloys						
Υ.C.	iron		-				
Lub M	60 - nickel	/					
	50-						
	틆 40	/					
	30						
	20 -						
	10-						
		555					
	0ct7/20 Jul9/22		May16/23	Feb2/24			
			2	9			
			May	Feb			
	Non-ferrous Met	als	May	EP.			
	Non-ferrous Met	als	May	Feb			
	Non-ferrous Met	als	May	Feb			
	Non-ferrous Met	als	May	Feb			
	Non-ferrous Met	als	May	-te			
	Non-ferrous Met	als	May	Feb			
	Non-ferrous Met	als	May	7			
	Non-ferrous Met	als	May	Feb			
	Non-ferrous Met	als					
	Non-ferrous Met	als		Feb2/24			
	Non-ferrous Met		May16/23	Feb2024	Base Number	r	
	Non-ferrous Met			5272rej 12.0	T	ſ	
	Non-ferrous Met			12.0 10.0	T	r	
	Non-ferrous Met			12.0 10.0			
	Non-ferrous Met			12.0 10.0			
	Non-ferrous Met			12.0 10.0		ſ	
	Non-ferrous Met			12.0 10.0 (0)H00 8.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1			
	Non-ferrous Met			12.0 10.0			
	Non-ferrous Met		May16/23	12.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0			
	Non-ferrous Met		May16/23	12.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0			
	Non-ferrous Met			12.0 (0)(HO)() Buil agumn Manager 2.0		Jug/22	
Drv	Non-ferrous Met		May 16/23	12.0 10.0	0et7/20	Jul9/22	
ory No.	Non-ferrous Met		EZIGI/Jew EZIGI/Jew on Ave., Cary	12.0 10.0	0et7/20	ZZUBIN rironmental - 654 - I	Eichmond Haulir
No. nber	Non-ferrous Met	PC 501 Madiso Recei Teste	EZIGI/NEW EZIGI/NEW on Ave., Cary ived : 08 rd : 05	12.0 12.0 10.0	GFL Env	ZZUBIN rironmental - 654 - I	Richmond Haulir 300 Lewis Roa Chester, V
No. nber mber	Non-ferrous Met 3 4 4 4 4 4 4 4 4 4 4 4 4 4	PC 501 Madiso Recei Teste	EZIGIJAEW EZIGIJAEW on Ave., Cary ived : 08 ad : 05	12.0 12.0 10.0	GFL Env	2009000 vironmental - 654 - 1 118	[■] Richmond Haulir 300 Lewis Roa

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)

Certificate L2367

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