

OIL ANALYSIS REPORT

Sample Rating Trend



Area {UNASSIGNED} Machine Id 933041 Component

Natural Gas Engine

PETRO CANADA DURON SHP 15W40 (8 GAL)

RON SHP 15W4	0 (8 GAL)	Jun2023	Jul2023 Sep2023	Oct2023 Nov2023 Dec2023	Dec2023	
SAMPLE INF	ORMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107211	GFL0101264	GFL010118
Sample Date		Client Info		18 Dec 2023	04 Dec 2023	10 Nov 2023
Machine Age	hrs	Client Info		1553	1401	1248
Oil Age	hrs	Client Info		440	288	135
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMIN	ATION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR MET	ALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	19	15	10
Chromium	ppm	ASTM D5185m	>4	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	2
Lead	ppm	ASTM D5185m	>30	0	0	<1
Copper	ppm	ASTM D5185m	>35	2	1	1
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	2	4
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	63	60	61
Manganese	ppm	ASTM D5185m	0	1	0	<1
Magnesium	ppm	ASTM D5185m	1010	931	810	944
Calcium	ppm	ASTM D5185m	1070	1087	1035	1121
Phosphorus	ppm	ASTM D5185m	1150	998	842	1046
Zinc	ppm	ASTM D5185m	1270	1240	1090	1285
Sulfur	ppm	ASTM D5185m		2860	3082	3121
CONTAMIN	ANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	5	4	3
Sodium	ppm	ASTM D5185m		5	12	3
Potassium	ppm	ASTM D5185m	>20	7	7	4
INFRA-RED)	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.3	7.9	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	17.2	17.1
FLUID DEG	RADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	12.9	12.6
Base Number (B	N) ma KOH/a	ASTM D2896	9.8	5.4	6.1	7.5
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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.

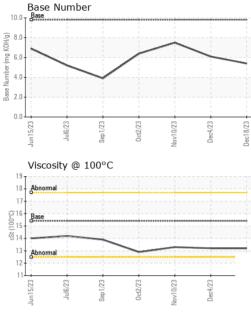
Fluid Condition

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



OIL ANALYSIS REPORT

VISUAL



	W	hite Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
	Ye	ellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
	Pi	recipitate	scalar	*Visual	NONE	NONE	NONE	NONE	
	Si		scalar	*Visual	NONE	NONE	NONE	NONE	
	D	ebris	scalar	*Visual	NONE	NONE	NONE	NONE	
		and/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE	
Sep 1/23 0ct2/23 Nov10/23	V Dec4/23	opearance	scalar	*Visual	NORML	NORML	NORML	NORML	
Nov Di	O ⁶	dor	scalar	*Visual	NORML	NORML	NORML	NORML	
٥C	E	mulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG	
	Fr	ree Water	scalar	*Visual		NEG	NEG	NEG	
		FLUID PROPE	RTIES	method	limit/base	current	history1	history2	
	Vi	sc @ 100°C	cSt	ASTM D445	15.4	13.2	13.2	13.3	
		GRAPHS							
	70 .	Ferrous Alloys							
Sep 1/23 - 0et2/23 - 0et2/23 - Nov10/23 -		EZIGUMP Ron-ferrous Metal	0ct2/23	lov10/23 Nov10/23 Dec4/23 Dec4	23 A Dect 8/23 A Dect 8/23				
		Viscosity @ 100°C		Nov10/23 Dec4/23	Dec18/23				
	¹⁹ T				10.0 T	Base Number			
		Abnormal		1 1					
	17-				(B/HO		\wedge		
	() 16 - () 0001 15 - tso 14 -	Base			0,0.0 6,0-0 0,00 KOH(0) 888 838 838 838 838 838 838 838 838 83	\mathbf{i}			
	15 t				-a 5 4.0-				
	10		-		Na Se Nu				
	13-	Abnormal	1	1	<u>2.0</u>				
	12				0.0				
		un 15/23 - Jul6/23 - Sep 1/23 -	0ct2/23 -	lov10/23 - Dec4/23 -		un 15/23 + Jul6/23 + Sep 1/23 +	0ct2/23 +	Dec4/23 +	
		Jun 15/23 Jul6/23 Sep 1/23	Oct	Nov10/23 Dec4/23	Dec18/23	Jun15/23 Jul6/23 Sep1/23	0ct2/23 Nov10/23	Dec4/23 Dec18/23	
ANAB Sa	mple No. : G b Number : 0	: WearCheck USA - 501 Madison Ave., Cary, N : GFL0107211 Recieved : 20 Dec 3 : 06041260 Diagnosed : 22 Dec 3 : 10796489 Diagnostician : Wes Da : FLEET contact Customer Service at 1-800-237-1369. are outside of the ISO 17025 scope of accreditatic ifications are based on the simple acceptance decis				2023 1280 Rum Creek Parkway 2023 Stockbridge, GA Vis US 30281 Contact: JOSHUA TINKER joshuatinker@gflenv.com n. T:			

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