

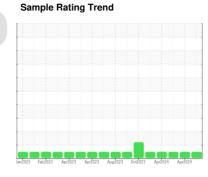
OIL ANALYSIS REPORT



(62A0X0C) TALLASSEE 927048-162501

Diesel Engine

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







DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

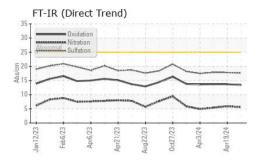
Fluid Condition

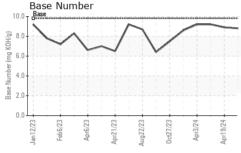
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

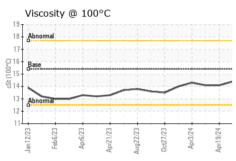
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0080676	GFL0089943	GFL0080700
Sample Date		Client Info		20 May 2024	19 Apr 2024	11 Apr 2024
Machine Age	hrs	Client Info		18545	18356	18410
Oil Age	hrs	Client Info		152	18356	17
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status		00110		NORMAL	NORMAL	NORMAL
CONTAMINA	TION	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	7 0.2	NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron		ASTM D5185m	>120	6	16	13
Chromium	ppm			0	<1	<1
	ppm		>20	-		
Nickel	ppm	ASTM D5185m	>5	0	2	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	4	2
Lead	ppm	ASTM D5185m	>40	1	2	<1
Copper	ppm	ASTM D5185m	>330	0	2	1
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	11	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	66	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	987	959	934
Calcium	ppm	ASTM D5185m	1070	1058	1114	1087
Phosphorus	ppm	ASTM D5185m	1150	1077	1104	1024
Zinc	ppm	ASTM D5185m	1270	1271	1238	1234
Sulfur	ppm	ASTM D5185m	2060	3650	3078	3654
	1-1-					
CONTAMINA	NTS	method	limit/base	current	history1	history2
	-				•	•
Silicon	ppm	ASTM D5185m		7	24	18
	ppm		>25	7 1	24 <1	18
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>25	7	24	18
Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >20 limit/base	7 1 <1 current	24 <1 3 history1	18 3 10 history2
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >20 limit/base >4	7 1 <1 current 0.3	24 <1 3 history1 0.4	18 3 10 history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>25 >20 limit/base >4 >20	7 1 <1 current 0.3 5.6	24 <1 3 history1 0.4 5.9	18 3 10 history2 0.2 5.4
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >4 >20 >30	7 1 <1 current 0.3 5.6 17.6	24 <1 3 history1 0.4 5.9 17.8	18 3 10 history2 0.2 5.4 17.9
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRA	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	>25 >20 limit/base >4 >20 >30 limit/base	7 1 <1 current 0.3 5.6 17.6	24 <1 3 history1 0.4 5.9 17.8 history1	18 3 10 history2 0.2 5.4 17.9
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >4 >20 >30 limit/base >25	7 1 <1 current 0.3 5.6 17.6	24 <1 3 history1 0.4 5.9 17.8	18 3 10 history2 0.2 5.4 17.9

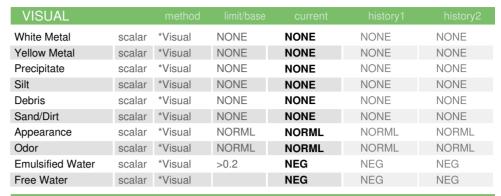


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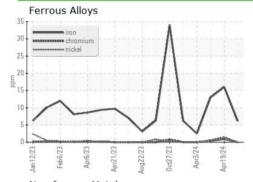




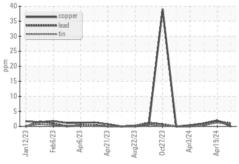


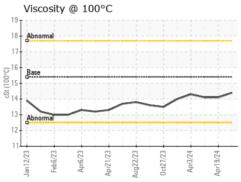
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.1	14.1

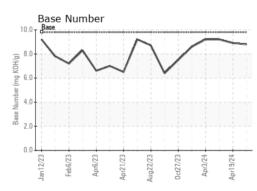
GRAPHS



Non-ferrous Metals











Certificate 12367

Laboratory Sample No.

Lab Number : 06187190 Unique Number : 11043942

: GFL0080676

Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 May 2024

Tested : 22 May 2024 Diagnosed : 22 May 2024 - Wes Davis

GFL Environmental - 172 - Montgomery-Alexander City-Tallahassee Multiple Sites Montgomery, AL US 36108

Contact: RICHARD HATFIELD

rhatfield@gflenv.com

 st - 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)

Submitted By: Lisa Reeves

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