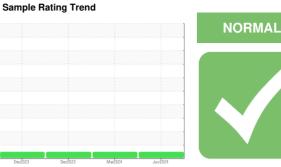


OIL ANALYSIS REPORT

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(51464R)
712051
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 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

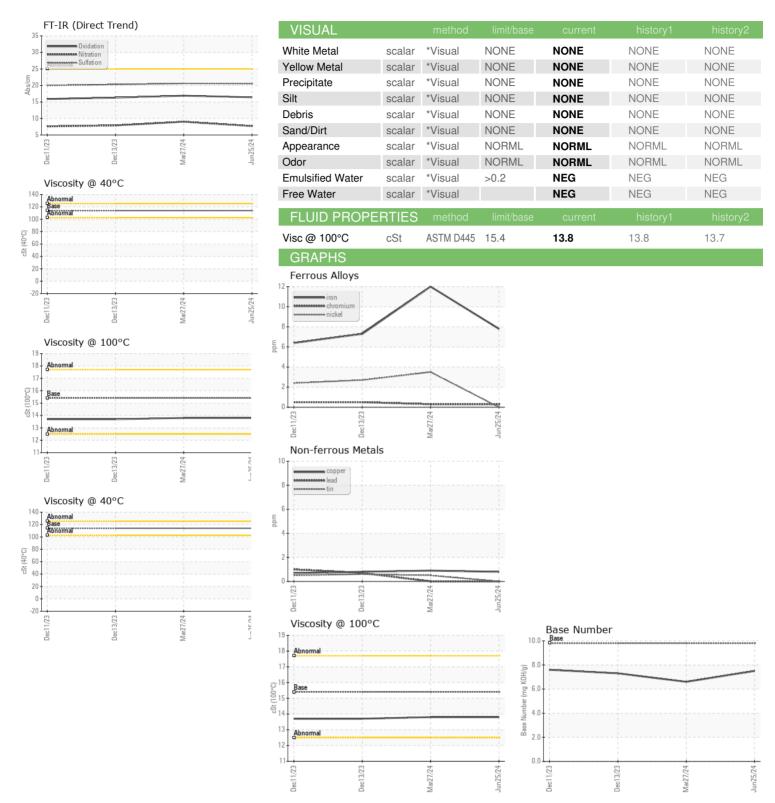
Fluid Condition

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

W 3HF 15W40 (-	GAL)	Deczoz	3 0002023	Marzoz4 Ji	1112.024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0119949	GFL0103556	GFL0085305
Sample Date		Client Info		25 Jun 2024	27 Mar 2024	13 Dec 2023
Machine Age	hrs	Client Info		4641	4085	0
Oil Age	hrs	Client Info		0	0	580
Oil Changed		Client Info		Not Changd	Changed	N/A
Sample Status				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		NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	8	12	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	4	3
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	1	1	<1
_ead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	6	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	61	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1129	987	984
Calcium	ppm	ASTM D5185m	1070	1234	1122	1017
Phosphorus	ppm	ASTM D5185m	1150	1133	1019	986
Zinc	ppm	ASTM D5185m	1270	1535	1267	1272
Sulfur	ppm	ASTM D5185m	2060	3925	3281	2886
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	4
Sodium	ppm	ASTM D5185m		2	3	2
Potassium	ppm	ASTM D5185m	>20	1	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.7	9.0	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	20.6	20.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	16.9	16.3
Base Number (BN)		ASTM D2896		7.5	6.6	7.3
50 . (21001 (2.14)	91101119		3.0		0.0	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06223299 Unique Number : 11101496

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0119949

Received : 28 Jun 2024 **Tested** Diagnosed

: 01 Jul 2024

: 01 Jul 2024 - Don Baldridge

GFL Environmental - 958A - Chillicothe Wigand 19908 N. State Rd 29 Chillicothe, IL US 61523

Contact: Bryan Link blink@gflenv.com T:

Test Package : FLEET (Additional Tests: KV40) To discuss this sample report, contact Customer Service at 1-800-237-1369. 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)

Report Id: GFL958A [WUSCAR] 06223299 (Generated: 07/02/2024 04:22:47) Rev: 1

Submitted By: DREW MOOBERRY

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