

## **OIL ANALYSIS REPORT**



Recommendation

Contamination

**Fluid Condition** 

Resample at the next service interval to monitor.

There is no indication of any contamination in the

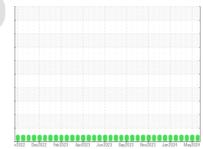
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the

All component wear rates are normal.

oil is suitable for further service.

**MONTGOMERY** MACK 920015-192536

**Diesel Engine** 



Sample Rating Trend



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

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118423	GFL0088007	GFL0088014
Sample Date		Client Info		05 Jun 2024	21 May 2024	08 May 2024
Machine Age	hrs	Client Info		13617	13483	8456
Oil Age	hrs	Client Info		134	1134	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	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
Iron	ppm	ASTM D5185m	>120	5	13	14
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	4	5
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	3	<1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	63	77
Manganese	ppm	ASTM D5185m	0	0	<1	0
Magnesium	ppm	ASTM D5185m	1010	926	965	1211
Calcium	ppm	ASTM D5185m	1070	1052	1061	1331
Phosphorus	ppm	ASTM D5185m	1150	1121	1007	1281
Zinc	ppm	ASTM D5185m		1224	1239	1624
Sulfur	ppm	ASTM D5185m	2060	3246	3057	3752
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	8	10
Sodium	ppm	ASTM D5185m		2	4	6
Potassium	ppm	ASTM D5185m	>20	2	0	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	5.7	7.3	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	19.0	19.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	14.8	15.0

8.1

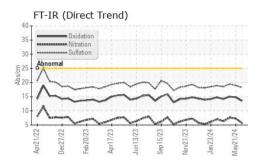
Base Number (BN) mg KOH/g ASTM D2896 9.8

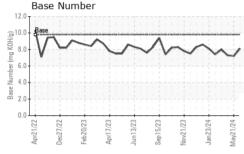
7.2

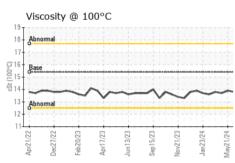
7.3

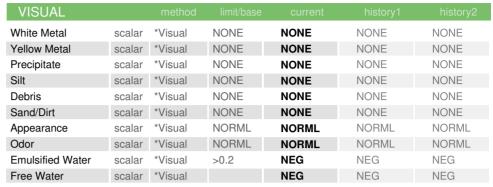


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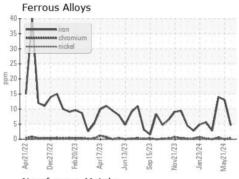


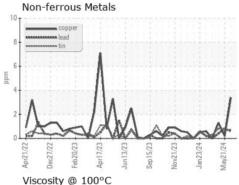


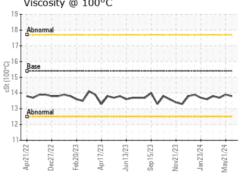


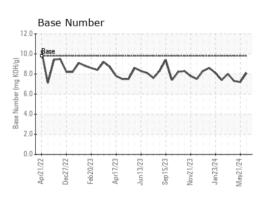
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	13.7

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

Lab Number : 06202283 Unique Number : 11069744

: GFL0118423

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Jun 2024

**Tested** : 10 Jun 2024 Diagnosed : 10 Jun 2024 - Wes Davis

1121 Wilbanks St Montgomery, AL

GFL Environmental - 955 - Montgomery

US 36108

Contact: LISA REEVES

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)

Report Id: GFL955 [WUSCAR] 06202283 (Generated: 06/10/2024 16:53:07) Rev: 1

Submitted By: Lisa Goldman

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