

## **OIL ANALYSIS REPORT**

Sample Rating Trend



## Area MONTGOMERY MACK 420040



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.

DIAGNOSIS Recommendation

Contamination

Fluid Condition

Wear

oil.

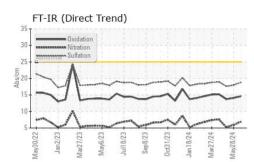
Diesel Engine

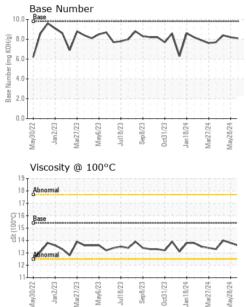
PETRO CANADA DURON SHP 15W40 (--- LTR)

N SHP 15W40 ( LTR)								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0127241	GFL0088025	GFL0118450		
Sample Date		Client Info		27 Jun 2024	28 May 2024	19 Apr 2024		
Machine Age	hrs	Client Info		218	9996	9866		
Oil Age	hrs	Client Info		218	789	659		
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATI	ION	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 METALS	S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>120	7	4	4		
Chromium	ppm	ASTM D5185m	>20	<1	<1	0		
Nickel	ppm	ASTM D5185m	>5	<1	<1	0		
Titanium	ppm	ASTM D5185m	>2	<1	<1	0		
Silver	ppm	ASTM D5185m	>2	<1	0	0		
Aluminum	ppm	ASTM D5185m	>20	3	1	2		
Lead	ppm	ASTM D5185m	>40	<1	<1	0		
Copper	ppm	ASTM D5185m	>330	1	<1	0		
Tin	ppm	ASTM D5185m	>15	<1	<1	0		
Vanadium	ppm	ASTM D5185m		<1	<1	0		
Cadmium	ppm	ASTM D5185m		<1	<1	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	1	<1	<1		
Barium	ppm	ASTM D5185m	0	<1	0	0		
Molybdenum	ppm	ASTM D5185m	60	63	58	60		
Manganese	ppm	ASTM D5185m	0	<1	0	0		
Magnesium	ppm	ASTM D5185m	1010	921	932	1047		
Calcium	ppm	ASTM D5185m	1070	1085	1035	1145		
Phosphorus	ppm	ASTM D5185m	1150	967	1077	1103		
Zinc	ppm	ASTM D5185m	1270	1186	1252	1327		
Sulfur	ppm	ASTM D5185m	2060	2517	3331	3874		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	4	4	7		
Sodium	ppm	ASTM D5185m		4	2	2		
Potassium	ppm	ASTM D5185m	>20	3	2	<1		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>4	0.3	0.2	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	6.9	5.9	5.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	18.0	17.6		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2		
FLUID DEGRAD	DATION Abs/.1mm	method *ASTM D7414	limit/base >25	current 14.6	history1 14.1	history2 13.7		



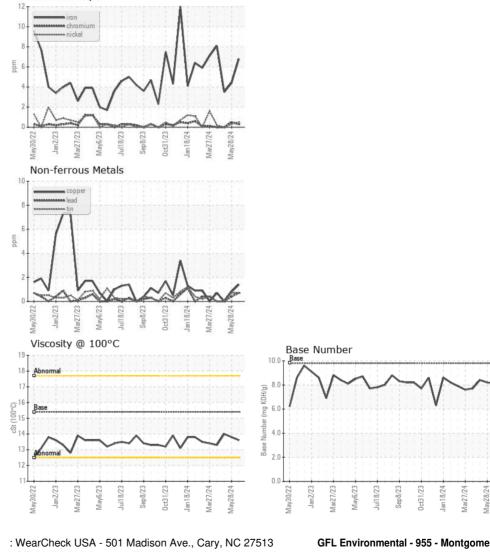
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.8	14.0
GRAPHS						

Ferrous Alloys



Laboratory GFL Environmental - 955 - Montgomery Sample No. : GFL0127241 Received : 02 Jul 2024 1121 Wilbanks St Lab Number : 06226016 Tested : 03 Jul 2024 Montgomery, AL US 36108 Unique Number : 11109509 Diagnosed : 03 Jul 2024 - Wes Davis Test Package : FLEET Contact: LISA REEVES Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. T: \* - 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)

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