

OIL ANALYSIS REPORT

Sample Rating Trend

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Area MONTGOMERY MACK 420040



Diesel Engine

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

N SHP 15W40 (LTR)								
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0127224	GFL0127241	GFL008802		
Sample Date		Client Info		08 Jul 2024	27 Jun 2024	28 May 2024		
Machine Age	hrs	Client Info		281	218	9996		
Dil Age	hrs	Client Info		0	218	789		
Dil Changed		Client Info		Changed	Not Changd	Not Changd		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINAT	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 METAL	.S	method	limit/base	current	history1	history2		
ron	ppm	ASTM D5185m	>120	11	7	4		
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1		
Nickel	ppm	ASTM D5185m		2	<1	<1		
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1		
Silver	ppm	ASTM D5185m	>2	0	<1	0		
Aluminum	ppm	ASTM D5185m		3	3	1		
Lead	ppm		>40	<1	<1	<1		
Copper	ppm	ASTM D5185m		3	1	<1		
Tin	ppm	ASTM D5185m	>15	<1	<1	<1		
Vanadium	ppm	ASTM D5185m		<1	<1	<1		
Cadmium	ppm	ASTM D5185m		<1	<1	<1		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	3	1	<1		
Barium	ppm	ASTM D5185m		<1	<1	0		
Molybdenum	ppm	ASTM D5185m	60	62	63	58		
Manganese	ppm	ASTM D5185m		<1	<1	0		
Magnesium	ppm	ASTM D5185m	1010	903	921	932		
Calcium	ppm	ASTM D5185m		1046	1085	1035		
Phosphorus	ppm	ASTM D5185m	1150	976	967	1077		
Zinc	ppm	ASTM D5185m	1270	1204	1186	1252		
Sulfur	ppm	ASTM D5185m	2060	2668	2517	3331		
CONTAMINAN		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	6	4	4		
Sodium	ppm	ASTM D5185m		5	4	2		
Potassium	ppm	ASTM D5185m		3	3	2		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	7.8	6.9	5.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	18.8	18.0		
FLUID DEGRA		method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	14.6	14.1		
Base Number (BN)								

DIAGNOSIS

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.

Recommendation

Contamination

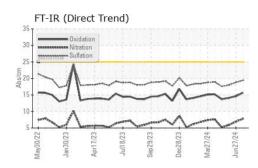
Fluid Condition

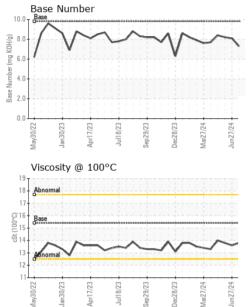
Wear

oil.

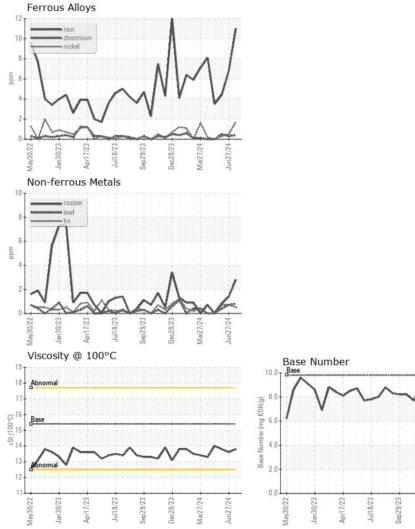


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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	13.8	13.6	13.8
GRAPHS						



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 955 - Montgomery Sample No. : GFL0127224 1121 Wilbanks St Received : 17 Jul 2024 Lab Number : 06238970 Tested : 18 Jul 2024 Montgomery, AL US 36108 Unique Number : 11127804 Diagnosed : 18 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. F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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