

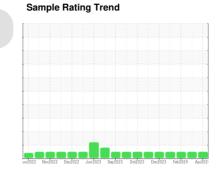
OIL ANALYSIS REPORT



MONTGOMERY MACK 420048

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

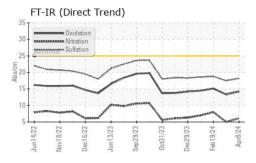
Fluid Condition

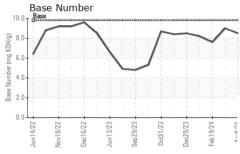
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

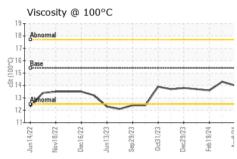
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0083561	GFL0115591	GFL0088661
Sample Date		Client Info		08 Apr 2024	14 Mar 2024	19 Feb 2024
Machine Age	hrs	Client Info		6752	6632	64541
Oil Age	hrs	Client Info		0	6632	58625
Oil Changed		Client Info		Not Changd	Not Changd	Changed
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	3	4	9
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	2	1
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm		>330	0	<1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium		ASTM D5185m	710	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm		li.ee:t/le = = =			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	3	2
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m	60	56	59	62
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	1010	918	933	916
Calcium	ppm	ASTM D5185m	1070	1044	1066	998
Phosphorus	ppm	ASTM D5185m	1150	963	1034	970
Zinc	ppm	ASTM D5185m	1270	1177	1233	1202
Sulfur	ppm	ASTM D5185m	2060	3187	3328	2936
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	nnm	ASTM D5185m	OF	4	5	4
	ppm	ASTIVI DSTOSIII	>25	4	5	4
Sodium	ppm	ASTM D5185m	>25	1	<1	0
Sodium Potassium						
	ppm	ASTM D5185m		1	<1	0
Potassium	ppm	ASTM D5185m ASTM D5185m	>20	1 0	<1 2	0 4
Potassium INFRA-RED	ppm	ASTM D5185m ASTM D5185m method	>20 limit/base	1 0 current	<1 2 history1	0 4 history2
Potassium INFRA-RED Soot %	ppm ppm	ASTM D5185m ASTM D5185m method *ASTM D7844	>20 limit/base >4	1 0 current 0.2	<1 2 history1 0.1	0 4 history2 0.3
Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>20 limit/base >4 >20	1 0 current 0.2 6.1	<1 2 history1 0.1 5.0	0 4 history2 0.3 8.0
Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >4 >20 >30	1 0 current 0.2 6.1 18.2	<1 2 history1 0.1 5.0 17.5	0 4 history2 0.3 8.0 18.8

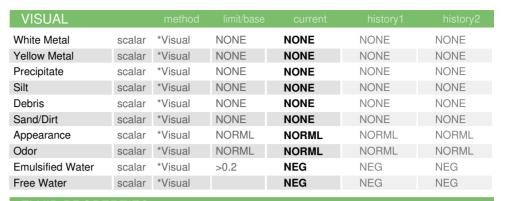


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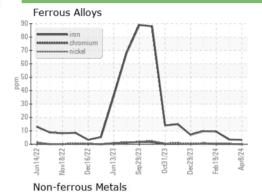


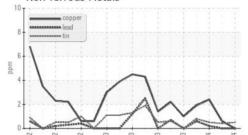


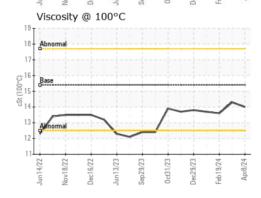


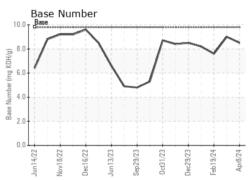
FLUID PROP	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.3	13.6

GRAPHS













Laboratory Sample No.

: GFL0083561 Lab Number : 06144921 Unique Number : 10969729

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 10 Apr 2024 : 11 Apr 2024 : 11 Apr 2024 - Wes Davis

GFL Environmental - 955 - Montgomery 1121 Wilbanks St

Montgomery, AL US 36108

Test Package : FLEET Certificate 12367 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: GFL955 [WUSCAR] 06144921 (Generated: 04/11/2024 14:36:22) Rev: 1

Submitted By: Lisa Reeves

Contact: LISA REEVES

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