

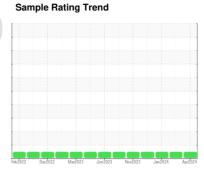
OIL ANALYSIS REPORT



MONTGOMERY MACK 924016-142519

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

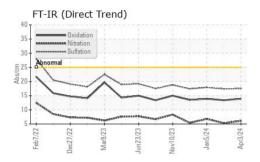
Fluid Condition

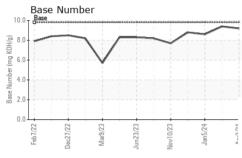
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

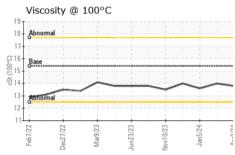
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0083553	GFL0088642	GFL0081890
Sample Date		Client Info		03 Apr 2024	06 Feb 2024	05 Jan 2024
Machine Age	hrs	Client Info		22150	22089	21973
Oil Age	hrs	Client Info		177	116	331
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	ON	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	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	30	9	8
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	4	5
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	6	6	1
Tin		ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m	>10	0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
	ppm		1: 1: 0			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	9	2
Barium	ppm		0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	89	61
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	1072	1435	976
Calcium	ppm	ASTM D5185m	1070	1174	1481	1061
Phosphorus	ppm	ASTM D5185m	1150	1152	1506	1041
Zinc	ppm	ASTM D5185m	1270	1427	1842	1242
Sulfur	ppm	ASTM D5185m	2060	4424	4723	3367
CONTAMINANT	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	7	6
Sodium	ppm	ASTM D5185m		7	3	6
Potassium	ppm	ASTM D5185m	>20	3	2	3
INFRA-RED		method	limit/base	current	history1	history2
	%	*ASTM D7844	>4	0.2	0.1	0.3
Soot %	/0					
Soot % Nitration	Abs/cm	*ASTM D7624	>20	6.1	5.3	6.8
		*ASTM D7624 *ASTM D7415	>20 >30	6.1 17.5	5.3 17.4	6.8 17.9
Nitration	Abs/cm Abs/.1mm					
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7415	>30	17.5	17.4	17.9
Nitration Sulfation FLUID DEGRAD	Abs/cm Abs/.1mm	*ASTM D7415 method	>30 limit/base >25	17.5 current	17.4 history1	17.9 history2

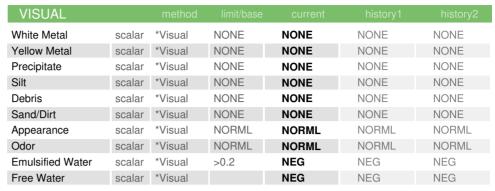


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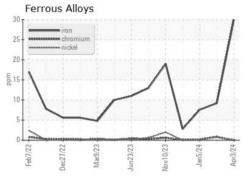


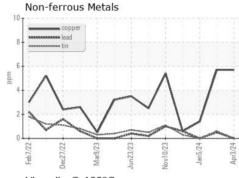


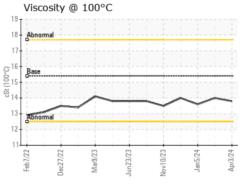


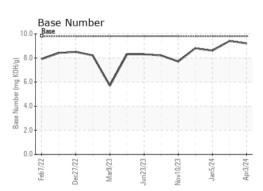
FLUID PROP	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.0	13.6

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0083553 Lab Number : 06139731 Unique Number : 10964539 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Apr 2024

Tested : 06 Apr 2024 Diagnosed : 06 Apr 2024 - Wes Davis

GFL Environmental - 955 - Montgomery 1121 Wilbanks St

Montgomery, AL US 36108

Contact: LISA REEVES

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)

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