

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL





(3A0C9HX) MONTGOMERY MACK 913101

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

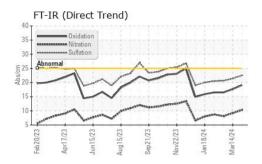
Fluid Condition

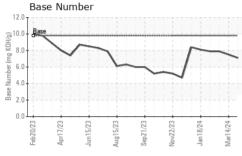
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

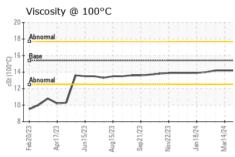
		sb2023 Apr2	023 Jun2023 Aug2023	Sep2023 Nov2023 Jan2024	Mar2024		
SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0115608	GFL0115592	GFL0088648	
Sample Date		Client Info		28 Mar 2024	14 Mar 2024	27 Feb 2024	
Machine Age	hrs	Client Info		2832	2730	2616	
Oil Age	hrs	Client Info		789	687	573	
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	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	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	14	12	6	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>5	1	1	<1	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	1	2	2	
Lead	ppm	ASTM D5185m	>40	0	0	0	
Copper	ppm	ASTM D5185m	>330	1	2	1	
Tin	ppm	ASTM D5185m	>15	0	<1	<1	
Vanadium	ppm	ASTM D5185m	710	<1	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
	ррии						
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	2	3	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	65	60	56	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1039	950	918	
Calcium	ppm	ASTM D5185m	1070	1176	1099	970	
Phosphorus	ppm	ASTM D5185m	1150	1085	1055	983	
Zinc	ppm	ASTM D5185m	1270	1365	1278	1228	
Sulfur	ppm	ASTM D5185m	2060	3639	3263	2833	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	6	5	
Sodium	ppm	ASTM D5185m		5	3	3	
Potassium	ppm	ASTM D5185m	>20	<1	3	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.7	0.6	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	10.3	9.2	8.1	
Sulfation	Abs/.1mm	*ASTM D7415		22.5	21.4	20.6	
FLUID DEGRADATION method limit/base current history1 history2							
Ovidation	Ahe/1mm	*ASTM D7//1/	> 25	10 1	17.6	16.5	
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896		19.1 7.1	17.6 7.5	16.5 7.9	



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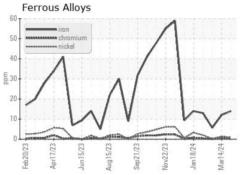


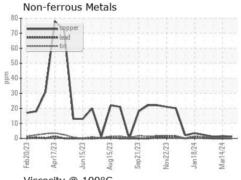


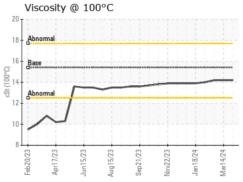
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

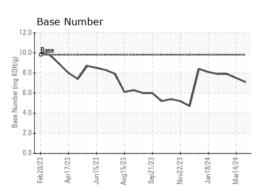
FLUID PROPE	:RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.2	14.2

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06137269

: GFL0115608 Unique Number: 10956734 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Apr 2024 **Tested**

: 04 Apr 2024 Diagnosed : 04 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.

* - 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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