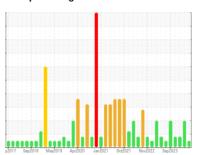


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 2443 MACK CV713

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (48 QTS)

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 oil.

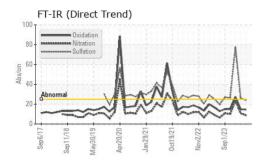
Fluid Condition

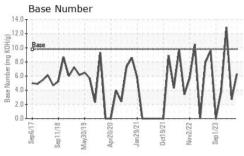
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

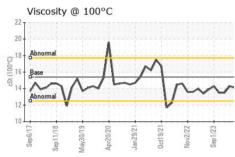
10)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117405	GFL0117478	GFL0103253
Sample Date		Client Info		13 Jun 2024	17 Apr 2024	03 Jan 2024
Machine Age	hrs	Client Info		44701	44374	43744
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
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	30	58	58
Chromium	ppm	ASTM D5185m	>20	<1	2	2
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	2
Lead	ppm	ASTM D5185m	>40	2	3	2
Copper	ppm	ASTM D5185m	>330	5	14	7
Γin	ppm	ASTM D5185m	>15	1	2	2
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	1	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	55	59	54
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	820	893	868
Calcium	ppm	ASTM D5185m	1070	1068	1063	964
Phosphorus	ppm	ASTM D5185m	1150	832	1060	969
Zinc	ppm	ASTM D5185m	1270	1115	1204	1169
Sulfur	ppm	ASTM D5185m	2060	2961	3301	2771
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	7	6
Sodium	ppm	ASTM D5185m		<1	2	2
Potassium	ppm	ASTM D5185m	>20	2	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	3.2	4.7	△ 4.6
Nitration	Abs/cm	*ASTM D7624	>20	8.8	10.8	23.7
	Abo/1mm	*ASTM D7415	>30	23.9	26.3	77.9
Sulfation	Abs/.1mm	ASTIVID/413	, 00	_0.0	_0.0	
Sulfation FLUID DEGRAI			limit/base	current	history1	
Sulfation FLUID DEGRAI Oxidation						history2 27.3



OIL ANALYSIS REPORT



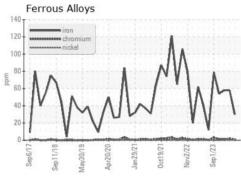


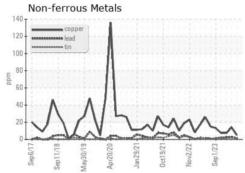


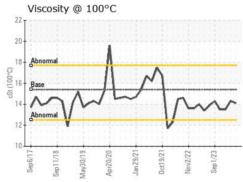
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

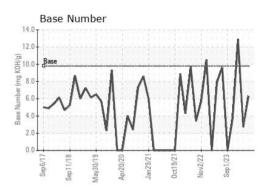
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.3	13.5

GRAPHS













Laboratory Sample No. Unique Number : 11082705

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0117405 Lab Number : 06209841

Received : 14 Jun 2024 **Tested** Diagnosed

: 15 Jun 2024 : 15 Jun 2024 - Wes Davis

GFL Environmental - 001 - Raleigh(CNG) 3741 Conquest Drive

Garner, NC US 27529

F: (919)662-7130

Contact: Craig Johnson craig.johnson@gflenv.com T: (919)662-7100

Test Package : FLEET Certificate 12367 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)

Report Id: GFL001 [WUSCAR] 06209841 (Generated: 06/15/2024 16:40:21) Rev: 1

Submitted By: aka Keith - Ronald Gregory