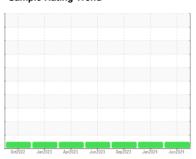


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
821047
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (6 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

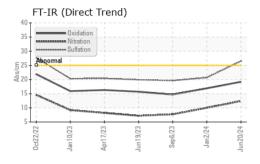
Fluid Condition

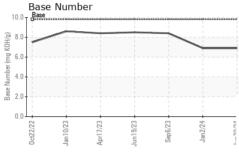
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

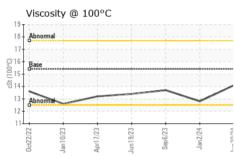
iAL)		0ct2022	Jan2023 Apr2023	Jun 2023 Sep 2023 Jan 2024	Jun2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0120459	GFL0108618	GFL0066218	
Sample Date		Client Info		20 Jun 2024	02 Jan 2024	06 Sep 2023	
Machine Age	hrs	Client Info		7605	6591	5892	
Oil Age	hrs	Client Info		500	500	500	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<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	
Iron	ppm	ASTM D5185m	>110	71	41	29	
Chromium	ppm	ASTM D5185m	>4	3	2	2	
Nickel	ppm	ASTM D5185m	>2	0	<1	<1	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	<1	0	
Aluminum	ppm	ASTM D5185m	>25	14	10	6	
Lead	ppm	ASTM D5185m	>45	0	0	0	
Copper	ppm	ASTM D5185m	>85	3	2	1	
Tin	ppm	ASTM D5185m	>4	0	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	5	5	4	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	71	61	65	
Manganese	ppm	ASTM D5185m	0	1	1	<1	
Magnesium	ppm	ASTM D5185m	1010	1145	932	988	
Calcium	ppm	ASTM D5185m	1070	1413	1126	1111	
Phosphorus	ppm	ASTM D5185m	1150	1219	1041	1048	
Zinc	ppm	ASTM D5185m	1270	1498	1245	1273	
Sulfur	ppm	ASTM D5185m	2060	3791	2848	3134	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	6	4	3	
Sodium	ppm	ASTM D5185m		9	8	6	
Potassium	ppm	ASTM D5185m	>20	6	7	7	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	2.7	1	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	12.4	10.0	7.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.5	20.7	19.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	16.9	14.7	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.9	6.9	8.4	
. ,							



OIL ANALYSIS REPORT



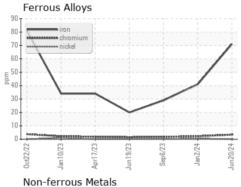


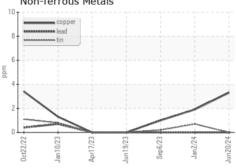


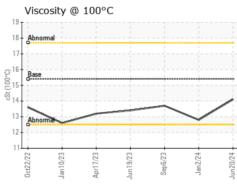
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

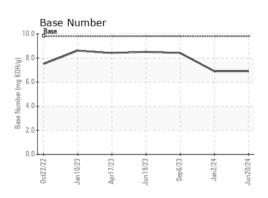
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	12.8	13.7

GRAPHS













Laboratory Sample No. Unique Number : 11101419

Lab Number : 06223222

: GFL0120459

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Jun 2024

Tested : 28 Jun 2024 Diagnosed : 28 Jun 2024 - Wes Davis

GFL Environmental - 904B - Menomonie

1706 MIDWAY RD MENOMONIE, WI US 54751

T: (715)202-3420

Contact: ANDY KANE

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)

Submitted By: See also GFL904,A,B,C, 927, 938 - Andy Kane