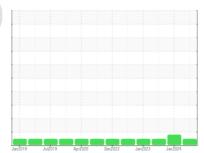


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 928075-205272

Diesel Engine

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

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

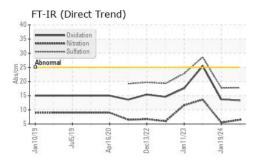
Fluid Condition

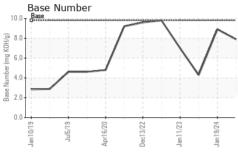
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

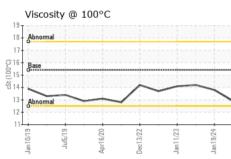
JAL)		Janzu19	Julzu19 Aprzuzu	Dec2022 Jan2023 Ji	INZUZ4		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0098924	GFL0099272	GFL0080052	
Sample Date		Client Info		21 May 2024	19 Jan 2024	04 Oct 2023	
Machine Age	hrs	Client Info		0	12255	12234	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		Not Changd	Changed	Not Changd	
Sample Status				NORMAL	ABNORMAL	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	>100	22	<u> </u>	88	
Chromium	ppm	ASTM D5185m	>20	2	3	3	
Nickel	ppm	ASTM D5185m	>4	1	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>3	1	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	45	
Lead	ppm	ASTM D5185m	>40	1	<1	<1	
Copper	ppm	ASTM D5185m	>330	1	<1	17	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	<1	
Cadmium	ppm	ASTM D5185m		<1	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	6	5	
Barium	ppm	ASTM D5185m	0	0	0	12	
Molybdenum	ppm	ASTM D5185m	60	54	49	35	
Manganese	ppm	ASTM D5185m	0	<1	1	3	
Magnesium	ppm	ASTM D5185m	1010	832	978	920	
Calcium	ppm	ASTM D5185m	1070	1014	986	1298	
Phosphorus	ppm	ASTM D5185m	1150	918	983	908	
Zinc	ppm	ASTM D5185m	1270	1093	1161	1128	
Sulfur	ppm	ASTM D5185m	2060	3107	2853	2820	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	8	12	
Sodium	ppm	ASTM D5185m		1	2	4	
Potassium	ppm	ASTM D5185m	>20	2	2	98	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3	0.1	1.1	
Nitration	Abs/cm	*ASTM D7624	>20	6.5	5.5	13.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	17.7	28.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	13.7	25.5	
Base Number (BN)	mg KOH/g	ASTM D2896		7.9	8.9	4.3	
()	0 - 0						



OIL ANALYSIS REPORT



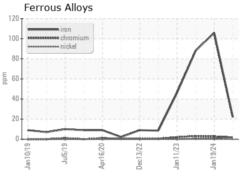


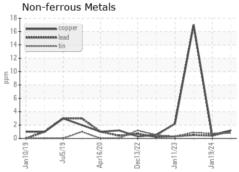


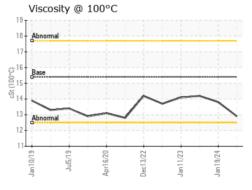
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

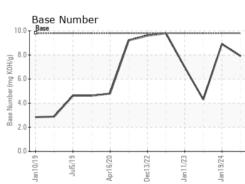
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.8	14.2	

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0098924 Lab Number : 06193659 Unique Number : 11050411 Test Package : FLEET

Received : 29 May 2024 **Tested** : 30 May 2024 Diagnosed

: 30 May 2024 - Wes Davis

Princeton, KY US 42445 Contact: ROBERT THIBAULT robert.thibault@gflenv.com

10129 Highway 62 West

T: (931)237-6045

GFL Environmental - 844 - Princeton Hauling

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)