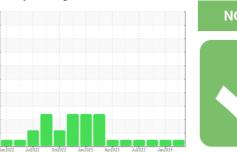


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
929059
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- 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

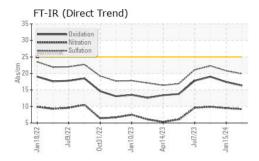
Fluid Condition

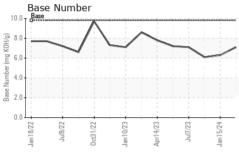
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

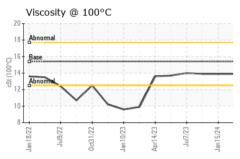
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0116168	GFL0104549	GFL0092624	
Sample Date		Client Info		12 Apr 2024	15 Jan 2024	18 Oct 2023	
Machine Age	nrs	Client Info		10950	10341	9734	
Oil Age	nrs	Client Info		630	617	688	
Oil Changed		Client Info		Changed	Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	N	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		method	limit/base	current	history1	history2	
Iron p	opm	ASTM D5185m	>120	15	12	13	
Chromium	opm	ASTM D5185m	>20	1	<1	<1	
	opm	ASTM D5185m	>5	1	0	0	
	opm	ASTM D5185m	>2	<1	0	0	
	opm	ASTM D5185m	>2	<1	0	<1	
	opm	ASTM D5185m	>20	4	3	3	
	opm	ASTM D5185m	>40	2	0	0	
	opm		>330	1	<1	<1	
	opm	ASTM D5185m	>15	2	<1	0	
'	opm	ASTM D5185m	710	<1	<1	0	
		ASTM D5185m		1	0	0	
	opm		1: 1: 0				
ADDITIVES		method	limit/base	current	history1	history2	
	opm	ASTM D5185m	0	<1	0	0	
Barium p	opm	ASTM D5185m	0	<1	0	0	
Molybdenum	opm	ASTM D5185m	60	62	57	61	
Manganese p	opm	ASTM D5185m	0	1	0	<1	
Magnesium	opm	ASTM D5185m	1010	972	934	982	
Calcium	opm	ASTM D5185m	1070	1093	994	1069	
Phosphorus p	opm	ASTM D5185m	1150	1124	963	1011	
Zinc p	opm	ASTM D5185m	1270	1293	1161	1307	
Sulfur p	opm	ASTM D5185m	2060	3407	2459	2509	
CONTAMINANT	S	method	limit/base	current	history1	history2	
Silicon	opm	ASTM D5185m	>25	6	4	4	
Sodium	opm	ASTM D5185m		10	39	5	
Potassium p	opm	ASTM D5185m	>20	3	2	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.6	0.6	0.8	
Nitration /	Abs/cm	*ASTM D7624	>20	9.2	9.5	9.9	
	Abs/.1mm	*ASTM D7415	>30	19.9	20.8	22.3	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation /	Abs/.1mm	*ASTM D7414	>25	16.3	17.4	19.0	
	ng KOH/g	ASTM D2896		7.1	6.3	6.1	
(2.1)	39	J J=000					



OIL ANALYSIS REPORT



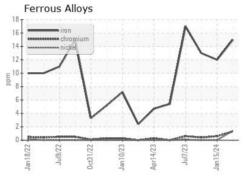




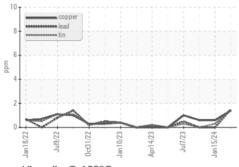
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

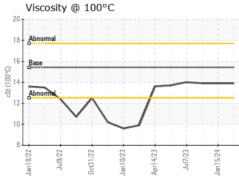
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.9	13.9	

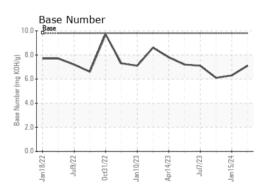
GRAPHS



Non-ferrous Metals











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No.

: GFL0116168 Lab Number : 06152537 Unique Number : 10982615

Received **Tested** Diagnosed

: 17 Apr 2024 : 18 Apr 2024 : 18 Apr 2024 - Wes Davis

N7296 County Rd V Horicon, WI US 53032

Contact: Tim Kieffer tim.kieffer@gflenv.com

GFL Environmental - 947 - WB Horicon HC

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 GFL935 - Tim Kieffer

T: (608)219-0288