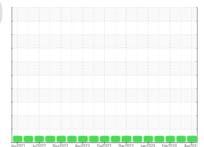


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
411044
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

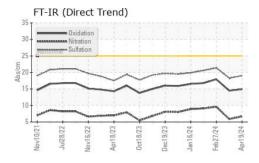
Fluid Condition

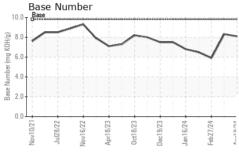
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

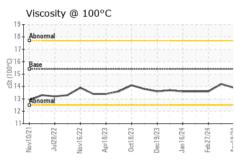
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109425	GFL0109345	GFL0109249
Sample Date		Client Info		19 Apr 2024	04 Apr 2024	27 Feb 2024
Machine Age	hrs	Client Info		7389	7253	7025
Oil Age	hrs	Client Info		260	124	492
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
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 METALS		method	limit/base	current	history1	history2
Iron		ASTM D5185m	>120	5	3	14
Chromium	ppm	ASTM D5185m		ວ <1	0	<1
Nickel		ASTM D5185m	>5	<1	0	1
Titanium	ppm	ASTM D5165III		8	6	3
Silver	ppm		>2	o <1	0	0
	ppm	ASTM D5185m		<1 3	<1	3
Aluminum	ppm	ASTM D5185m				
Lead	ppm	ASTM D5185m	>40	<1	0	1
Copper	ppm	ASTM D5185m		1	0	3
Tin	ppm	ASTM D5185m	>15	1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	8	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	56	65
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	879	1035	1029
Calcium	ppm	ASTM D5185m	1070	1066	1231	1174
Phosphorus	ppm	ASTM D5185m	1150	1039	1157	1105
Zinc	ppm	ASTM D5185m	1270	1191	1373	1367
Sulfur	ppm	ASTM D5185m	2060	3204	4213	2773
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	6
Sodium	ppm	ASTM D5185m		2	2	7
Potassium	ppm	ASTM D5185m	>20	4	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.6
Nitration	Abs/cm	*ASTM D7624	>20	6.7	5.9	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	18.3	21.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	14.5	17.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	8.3	5.9
, ,	0					

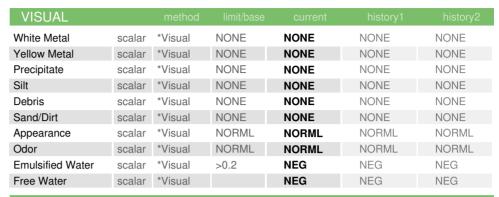


OIL ANALYSIS REPORT



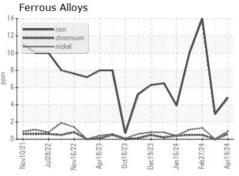


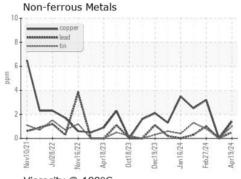


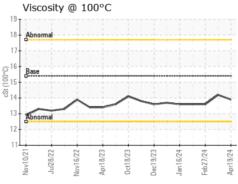


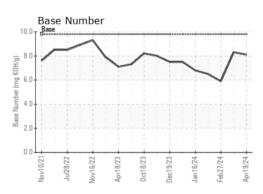
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.2	13.6

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06156686 Unique Number : 10992109

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109425 Test Package : FLEET

Received **Tested** Diagnosed

: 22 Apr 2024 : 23 Apr 2024 : 23 Apr 2024 - Wes Davis

1001 South Rockwell Oklahoma City, OK

GFL Environmental - 891 - Oklahoma City Hauling

US 73128 Contact: Andy Smith andrew.smith@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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)

T: (405)306-1651