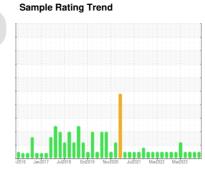


OIL ANALYSIS REPORT

Area (67445P) Machine Id 3541

Diesel Engine

PETRO CANADA DURON SHP 15W40 (56 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.

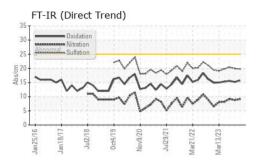
Fluid Condition

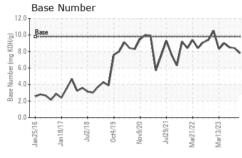
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

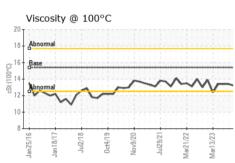
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113915	GFL0093762	GFL0079021
Sample Date		Client Info		11 Apr 2024	27 Nov 2023	02 Nov 2023
Machine Age	hrs	Client Info		19604	19157	19076
Oil Age	hrs	Client Info		64916	0	64916
Oil Changed	1110	Client Info		Not Changd	Changed	Changed
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 METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	29	43	41
Chromium	ppm	ASTM D5185m	>5	2	2	3
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	5	5	6
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	11	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	61	57
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1018	1024	923
Calcium	ppm	ASTM D5185m	1070	1142	1232	1083
Phosphorus	ppm	ASTM D5185m	1150	1171	1207	1093
Zinc	ppm	ASTM D5185m	1270	1390	1530	1295
Sulfur	ppm	ASTM D5185m	2060	3695	3565	3041
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm		>25	9	10	10
Sodium	ppm	ASTM D5185m		6	5	7
Potassium	ppm	ASTM D5185m	>20	<1	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.6	0.8	0.9
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.8	9.2
		*ASTM D7415	>30	19.8	19.9	20.4
Sulfation	Abs/.1mm	A31W1D7413	200		10.0	
Sulfation FLUID DEGRAI			limit/base	current	history1	history2



OIL ANALYSIS REPORT



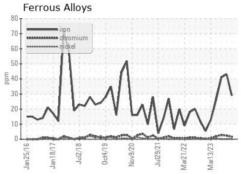


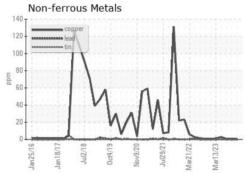


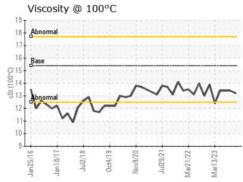
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

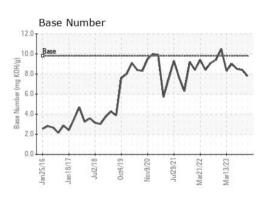
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.4	13.4

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06149372

Test Package : FLEET

: GFL0113915

Unique Number : 10979450

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Apr 2024 **Tested**

: 16 Apr 2024 Diagnosed : 16 Apr 2024 - Wes Davis

GFL Environmental - 029 - Wytheville 2390 North 4th Street Wytheville, VA

US 24382

Contact: CHARLES CORVIN

charles.corvin@gflenv.com;canastasio@wearcheckusa.com T: (276)223-4476

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)

F: (276)223-1283