

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

729010-5045

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (20 QTS)

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.

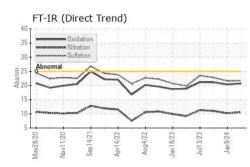
Fluid Condition

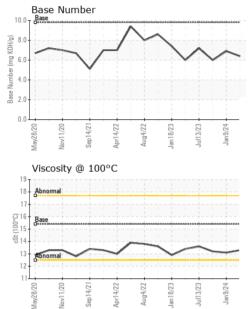
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096501	GFL0090905	GFL0090910
Sample Date		Client Info		01 Apr 2024	09 Jan 2024	12 Oct 2023
Machine Age	hrs	Client Info		11063	10490	9882
Oil Age	hrs	Client Info		573	608	618
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	c		limit/base			
		method		current	history1	history2
Iron	ppm	ASTM D5185m	>110	18	21	30
Chromium	ppm	ASTM D5185m	>4	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	3	4
Lead	ppm	ASTM D5185m	>45	0	0	0
Copper	ppm	ASTM D5185m	>85	0	2	3
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	16	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	60	62
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	908	916	896
Calcium	ppm	ASTM D5185m	1070	1082	1168	1031
Phosphorus	ppm	ASTM D5185m	1150	987	1038	947
Zinc	ppm	ASTM D5185m	1270	1231	1268	1196
Sulfur	ppm	ASTM D5185m	2060	3420	2955	3039
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6	8	10
Sodium	ppm	ASTM D5185m		8	8	9
Potassium	ppm	ASTM D5185m	>20	5	1	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	10.6	10.2	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	21.6	22.8
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.7	20.4	21.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.4	6.9	6.0
	0 0					



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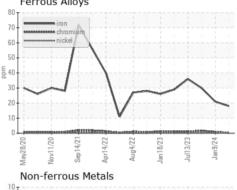


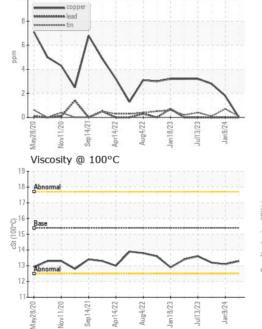


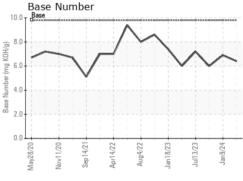
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.1	13.2
CDADUS						

GRAPHS Ferrous Alloys







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 656 - Culpeper Hauling Sample No. : GFL0096501 Received : 10 Apr 2024 15490 Montanus Drive Lab Number : 06145215 Tested : 11 Apr 2024 Culpeper, VA US 22701 Unique Number : 10970023 Diagnosed : 11 Apr 2024 - Wes Davis Test Package : FLEET Contact: Matt Hanna Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mhanna@gflenv.com T: (540)727-0887 * - 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:

Report Id: GFL656 [WUSCAR] 06145215 (Generated: 04/11/2024 18:21:27) Rev: 1

Submitted By: Matt Hanna

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