

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

810058

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.

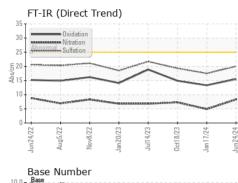
Fluid Condition

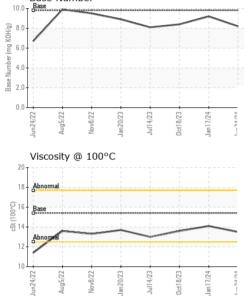
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0125448	GFL0104552	GFL0092623
Sample Date		Client Info		24 Jun 2024	17 Jan 2024	18 Oct 2023
Machine Age	hrs	Client Info		4620	4023	3325
Oil Age	hrs	Client Info		597	520	420
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	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 METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	19	1	5
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		3	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	9	1	4
Lead	ppm	ASTM D5185m	>45	0	0	0
Copper	ppm	ASTM D5185m	>85	6	<1	<1
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	<1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	53	60
Manganese	ppm	ASTM D5185m	0	1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1045	942	967
Calcium	ppm	ASTM D5185m	1070	1164	999	1050
Phosphorus	ppm	ASTM D5185m	1150	1103	1040	1068
Zinc	ppm	ASTM D5185m	1270	1404	1200	1306
Sulfur	ppm	ASTM D5185m	2060	3726	3111	2985
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm		>30	4	3	3
Sodium	ppm	ASTM D5185m		2	<1	0
Potassium	ppm	ASTM D5185m	>20	15	2	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.3	4.9	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	17.5	19.3
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	13.3	14.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	9.2	8.4

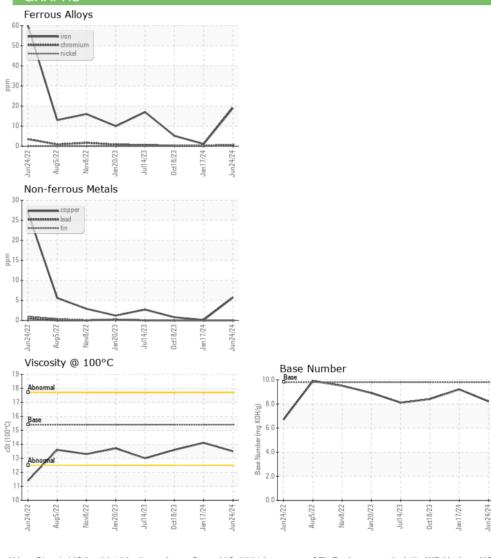


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.5	14.1	13.6
GRAPHS						



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 947 - WB Horicon HC Sample No. : GFL0125448 : 27 Jun 2024 Received N7296 County Rd V Lab Number : 06222979 Tested : 28 Jun 2024 Horicon, WI US 53032 Unique Number : 11101176 Diagnosed : 28 Jun 2024 - Wes Davis Test Package : FLEET Contact: Tim Kieffer Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. tim.kieffer@gflenv.com T: (608)219-0288 * - 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: GFL947 [WUSCAR] 06222979 (Generated: 06/28/2024 16:25:54) Rev: 1

Submitted By: Seel also GFL947 - Tim Kieffer