

# **OIL ANALYSIS REPORT**

# Sample Rating Trend N Judget Market Junitizet Junitizet





Machine Id
713075
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

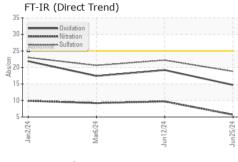
# **Fluid Condition**

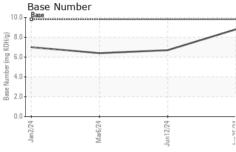
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

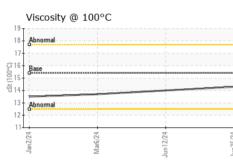
SAMPLE INFORM	AATION	method	limit/base	current	history1	history2	
	VIATION		mmoasc		•	GFL0103550	
Sample Number		Client Info		GFL0103529	GFL0103575		
Sample Date	hvo	Client Info		25 Jun 2024 2720	12 Jun 2024	06 Mar 2024 1972	
Machine Age	hrs	Client Info			2645 2645	0	
Oil Age	hrs	Client Info		2645			
Oil Changed		Client inio		Not Changd NORMAL	Changed NORMAL	Changed NORMAL	
Sample Status							
CONTAMINATI	ON	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	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	4	20	17	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>5	0	1	<1	
Titanium	ppm	ASTM D5185m	>2	<1	0	0	
Silver	ppm	ASTM D5185m	>2	<1	<1	0	
Aluminum	ppm	ASTM D5185m	>20	<1	2	<1	
Lead	ppm	ASTM D5185m	>40	0	0	<1	
Copper	ppm	ASTM D5185m	>330	2	14	34	
Tin	ppm	ASTM D5185m	>15	0	2	<1	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	1	3	6	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	63	63	
Manganese	ppm	ASTM D5185m	0	<1	1	<1	
Magnesium	ppm	ASTM D5185m	1010	1093	1044	1064	
Calcium	ppm	ASTM D5185m	1070	1197	1142	1174	
Phosphorus	ppm	ASTM D5185m	1150	1166	1117	1046	
Zinc	ppm	ASTM D5185m	1270	1471	1372	1329	
Sulfur	ppm	ASTM D5185m	2060	4102	3305	3299	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	3	5	4	
Sodium	ppm	ASTM D5185m		2	5	3	
Potassium	ppm	ASTM D5185m	>20	<1	3	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.2	0.6	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	5.7	9.7	9.2	
Sulfation	Abs/.1mm	*ASTM D7415		18.8	22.2	20.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	19.2	17.4	
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	14.7 8.8	19.2 6.7	17.4 6.4	



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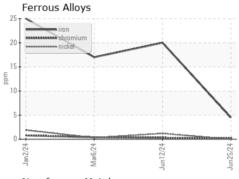


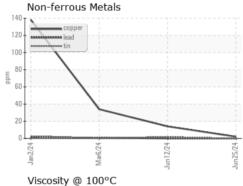


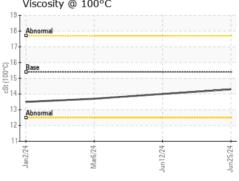
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

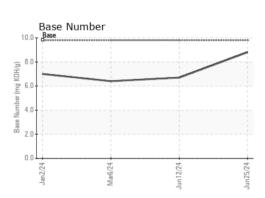
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.0	13.7

# **GRAPHS**













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0103529 Lab Number : 06223296 Unique Number : 11101493

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Jun 2024

**Tested** : 01 Jul 2024 Diagnosed : 01 Jul 2024 - Wes Davis

GFL Environmental - 958A - Chillicothe Wigand

19908 N. State Rd 29 Chillicothe, IL US 61523

Contact: Bryan Link blink@gflenv.com

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)

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