WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

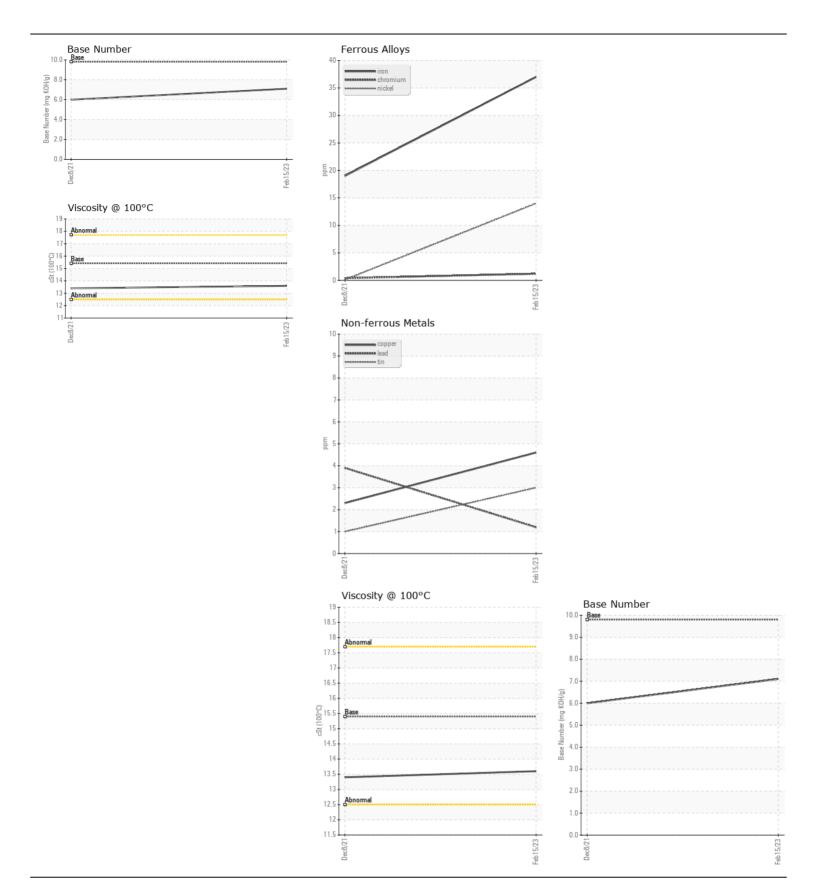
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(H31502) Machine Id 921036-260196

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

PETRO CANADA DURON SIP	13440 ((JAL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.	Sample Number		Client Info	21111071011	GFL0046916	GFL0037255	
	Sample Date		Client Info		15 Feb 2023	08 Dec 2021	
	Machine Age	hrs	Client Info		205	17360	
	Oil Age	hrs	Client Info		205	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed	0	Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>120	37	19	
	Chromium	ppm	ASTM D5185m	>20	1	<1	
	Nickel	ppm	ASTM D5185m	>5	14	<1	
	Titanium	ppm	ASTM D5185m	>2	<1	<1	
	Silver	ppm	ASTM D5185m	>2	0	<1	
	Aluminum	ppm	ASTM D5185m	>20	4	5	
	Lead	ppm	ASTM D5185m	>40	1	4	
	Copper	ppm	ASTM D5185m	>330	5	2	
	Tin	ppm	ASTM D5185m	>15	3	1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	30	13	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	7	1	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>4	0.6	1	
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	11.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	26.2	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
ELUID CONDITION	0 "		AOTA DE LOE		4.4	40	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	11	10	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		14	30	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		64	81	
	Manganese	ppm	ASTM D5185m		2	<1	
	Magnesium	ppm	ASTM D5185m		877	813	
	Calcium	ppm	ASTM D5185m		1067	1279	
	Phosphorus	ppm	ASTM D5185m		906	825	
	Zinc	ppm	ASTM D5185m		1163	1003	
	Sulfur	ppm	ASTM D5185m		3347	2346	
	Oxidation	Abs/.1mm	*ASTM D7414		14.5	23	
	Base Number (BN)	•	ASTM D2896		7.1	6	
	Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.4	







Laboratory Sample No.

Lab Number Unique Number : 10348998 Test Package : FLEET

: GFL0046916 : 05774381

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 22 Feb 2023 : 23 Feb 2023 Diagnosed

Diagnostician : Wes Davis

GFL Environmental - 814 - Little Rock Hauling 4005 Hwy 161 N. Little Rock, AR

US 72117 Contact: Brad Koenig bkoenig@gflenv.com T:

* - 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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