

Machine Id

NORMAL WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION

EXCAVATOR Component Diesel Engine PETRO CANADA DURON SHP 15W40 (--- GAL)

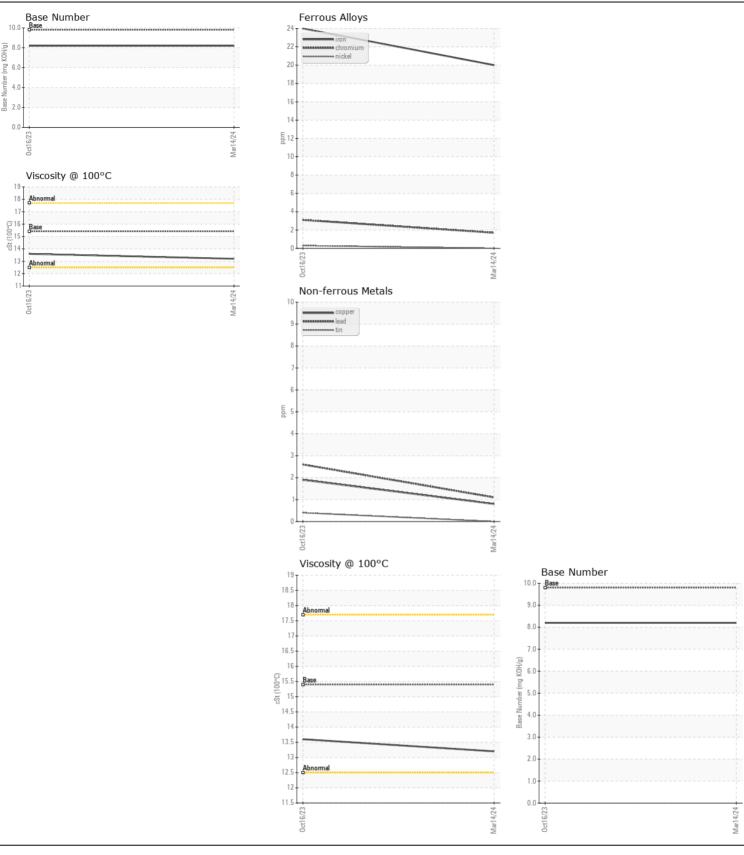
DECOMMENDATION	- .	11014		1.1.1,1.4.1			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. (Customer Sample Comment: Sample only)	Sample Number		Client Info		GFL0116269	GFL0088295	
	Sample Date	lave	Client Info		14 Mar 2024	16 Oct 2023	
	Machine Age	hrs	Client Info		0	6121	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0 Not Observed	0 Observed	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Not Changd	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	20	24	
	Chromium	ppm	ASTM D5185m	>20	2	3	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		<1	2	
	Lead	ppm	ASTM D5185m		1	3	
	Copper	ppm	ASTM D5185m		<1	2	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m	-	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		3	5	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		8	<1	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.2	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.2	
	Sulfation	Abs/.1mm	*ASTM D7415		18.9	19.0	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	2	
	Boron	ppm	ASTM D5185m	0	11	4	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	3	
	Molybdenum	ppm	ASTM D5185m	60	62	59	
	Manganese	ppm	ASTM D5185m	0	<1	<1	
	Magnesium	ppm	ASTM D5185m	1010	948	874	
	Calcium	ppm	ASTM D5185m		1101	1040	
	Phosphorus	ppm	ASTM D5185m		1018	984	
	Zinc	ppm	ASTM D5185m		1225	1141	
	Sulfur	ppm	ASTM D5185m		3513	2657	
	Oxidation	Abs/.1mm	*ASTM D7414		16.6	15.7	
	Base Number (BN)				8.2	8.2	
	Vice @ 100%C	oC+		4 - 4	10.0	10.6	

Visc @ 100°C cSt

13.2

13.6

ASTM D445 15.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 625 - Harrison Hauling Sample No. : GFL0116269 Received 4102 Industrial Pkwy : 19 Mar 2024 Lab Number : 06122968 Tested : 20 Mar 2024 Harrison, MI Unique Number : 10937119 Diagnosed : 21 Mar 2024 - Don Baldridge US 48625 Test Package : FLEET Contact: Glenda Standen Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. gstanden@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: