

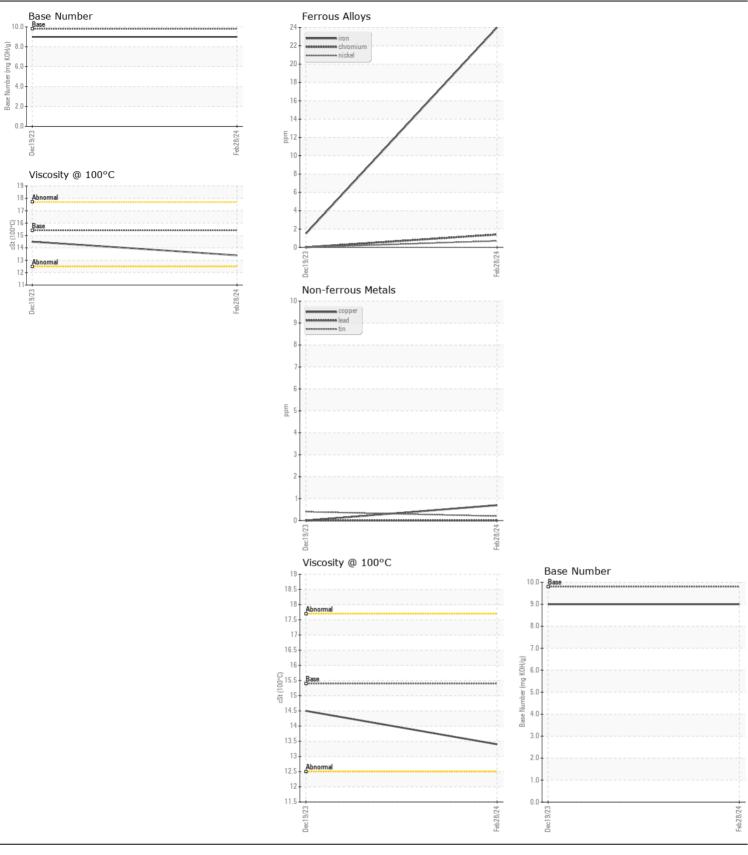
## Machine Id **4589M** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (--- GAL)**

FEINO CANADA DONON SHF 15W40 ( GAL	!						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0108957	GFL0105719	
	Sample Date		Client Info		28 Feb 2024	19 Dec 2023	
	Machine Age	hrs	Client Info		21650	21562	
	Oil Age	hrs	Client Info		21562	21562	
	Filter Age	hrs	Client Info		21562	21562	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	24	2	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	0	
	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		7	1	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		<1	0	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	
	Potassium	ppm	ASTM D5185m		15	1	
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	20.L	NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.9	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	4.6	
	Sulfation	Abs/.1mm	*ASTM D7415		20.7	17.3	
	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		34	1	
	Boron	ppm	ASTM D5185m	0	2	1	
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	0	
	Molybdenum	ppm	ASTM D5185m		64	57	
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m		903	947	
	Calcium	ppm	ASTM D5185m		985	1025	
	Phosphorus	ppm	ASTM D5185m		985	1020	
	Zinc	ppm	ASTM D5185m		1193	1252	
	Sulfur	ppm	ASTM D5185m		2862	3334	
	Oxidation	Abs/.1mm	*ASTM D7414		16.1	13.2	
	Base Number (BN)				9.0	9.0	
		aC+		15 4	10.4	14 5	

Visc @ 100°C cSt ASTM D445 15.4

14.5

13.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 415 - Michigan East Sample No. : GFL0108957 Received :01 Mar 2024 6200 Elmridge Lab Number : 06105718 Tested :01 Mar 2024 Sterling Heights, MI Unique Number : 10903948 Diagnosed : 01 Mar 2024 - Wes Davis US 48313 Test Package : FLEET Contact: Frank Wolak Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. fwolak@gflenv.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (586)825-9514 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: