

OIL ANALYSIS REPORT

Sample Rating Trend





Component 1 Differential Fluid

GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: 1st Axle / Pusher)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

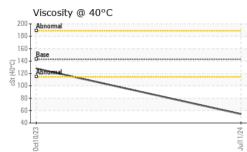
The condition of the oil is acceptable for the time in service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0128721	GFL0085483	
Sample Date		Client Info		11 Jul 2024	10 Oct 2023	
Machine Age	hrs	Client Info		70263	37103	
Oil Age	hrs	Client Info		70263	37103	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>1200	143	107	
Chromium	ppm	ASTM D5185m	>8	1	<1	
Nickel	ppm	ASTM D5185m	>20	5	7	
Titanium	ppm	ASTM D5185m	>4	<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>30	2	2	
Lead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m	>50	<1	<1	
Tin	ppm	ASTM D5185m	>5	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	90	260	
Barium	ppm	ASTM D5185m	200	<1	0	
	ppm ppm	ASTM D5185m ASTM D5185m	200 12	<1 0	0	
Molybdenum	ppm				0	
Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m	12	0 2	0 3	
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	12 12	0 2 1	0 3 0	
Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	12 12 150	0 2 1 7	0 3 0 15	
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	12 12 150 1650	0 2 1 7 679	0 3 0 15 988	
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	12 12 150	0 2 1 7	0 3 0 15	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	12 12 150 1650 125	0 2 1 7 679 38	0 3 0 15 988 0	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	12 12 150 1650 125 22500	0 2 1 7 679 38 18437	0 3 0 15 988 0 21258	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	12 12 150 1650 125 22500 limit/base >230	0 2 1 7 679 38 18437 current	0 3 0 15 988 0 21258 history1	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	12 12 150 1650 125 22500 imit/base >230 >170	0 2 1 7 679 38 18437 current 128	0 3 0 15 988 0 21258 history1 189	 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	12 12 150 1650 125 22500 imit/base >230 >170	0 2 1 7 679 38 18437 <u>current</u> 128 3	0 3 0 15 988 0 21258 history1 189 4	 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	12 12 150 1650 125 22500 limit/base >230 >170 >20	0 2 1 7 679 38 18437 <u>current</u> 128 3 0	0 3 0 15 988 0 21258 history1 189 4 2	 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	12 12 150 1650 125 22500 limit/base >230 >170 >20 limit/base	0 2 1 7 679 38 18437 current 128 3 0 current	0 3 0 15 988 0 21258 history1 189 4 2 2 history1	 history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	12 12 150 1650 125 22500 <i>limit/base</i> >230 >170 >20 <i>limit/base</i> NONE	0 2 1 7 679 38 18437 current 128 3 0 current NONE	0 3 0 15 988 0 21258 history1 189 4 2 2 history1 NONE	 history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m XFM D5185m	12 12 150 1650 125 22500 imit/base >230 >170 >20 imit/base NONE NONE	0 2 1 7 679 38 18437 <u>current</u> 128 3 0 0 <u>current</u> NONE NONE	0 3 0 15 988 0 21258 history1 189 4 2 2 history1 NONE NONE	 history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Yuisual *Visual	12 12 150 1650 125 22500 Imit/base >230 >170 >20 Imit/base NONE NONE NONE NONE	0 2 1 7 679 38 18437 <u>current</u> 128 3 0 <u>current</u> NONE NONE NONE NONE	0 3 0 15 988 0 21258 history1 189 4 2 2 history1 NONE NONE NONE NONE	 history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	12 12 150 1650 125 22500 imit/base >230 >170 >20 imit/base NONE NONE NONE NONE NONE	0 2 1 7 679 38 18437 <i>current</i> 128 3 0 <i>current</i> NONE NONE NONE NONE NONE	0 3 0 15 988 0 21258 history1 189 4 2 2 history1 NONE NONE NONE NONE NONE	 history2 history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	12 12 150 1650 125 22500 imit/base >230 >170 >20 imit/base NONE NONE NONE NONE NONE NONE NONE	0 2 1 7 679 38 18437 <i>current</i> 128 3 0 <i>current</i> NONE NONE NONE NONE NONE NONE	0 3 0 15 988 0 21258 history1 189 4 2 2 history1 NONE NONE NONE NONE NONE NONE NONE	 history2 history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *Visual *Visual	12 12 150 1650 125 22500 imit/base >230 >170 >20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	0 2 1 7 679 38 18437 current 128 3 0 current 128 3 0 current NONE NONE NONE NONE NONE NONE NONE NON	0 3 0 15 988 0 21258 history1 189 4 2 <u>history1</u> NONE NONE NONE NONE NONE NONE NONE	 history2 history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	12 12 150 1650 125 22500 Imit/base >230 >170 >20 Imit/base NONE NONE NONE NONE NONE NONE NONE NON	0 2 1 7 679 38 18437 current 128 3 0 current NONE NONE NONE NONE NONE NONE NONE NON	0 3 0 15 988 0 21258 history1 189 4 2 <u>history1</u> NONE NONE NONE NONE NONE NONE NONE NON	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *Visual *Visual	12 12 150 1650 125 22500 imit/base >230 >170 >20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	0 2 1 7 679 38 18437 current 128 3 0 current 128 3 0 current NONE NONE NONE NONE NONE NONE NONE NON	0 3 0 15 988 0 21258 history1 189 4 2 <u>history1</u> NONE NONE NONE NONE NONE NONE NONE NON	 history2 history2 -

Submitted By: TECHNICIAN ACCOUNT



OIL ANALYSIS REPORT



FLUID PROPERTIES	method				history2
Visc @ 40°C cSt	ASTM D445	143	54.3	128	
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image
GRAPHS					
Ferrous Alloys					
Non-ferrous Metals		Juli 1/24			
7 6 5 4 3 2 1 0 5 5		24			
Viscosity @ 40°C		+2/11/uL			
20 120 - Abnormal 700					
oratory : WearCheck USA - 501 Madisa ple No. : GFL0128721 Rece Number : 06239485 Testa ue Number : 11128319 Diag	eived :17 ed :18	, NC 27513 7 Jul 2024 9 Jul 2024 Jul 2024 - Se			ugar Land Haulir st Belfort Stree Sugar Land, T US 7749



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: GFL983 [WUSCAR] 06239485 (Generated: 07/19/2024 13:05:14) Rev: 1

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.

Test Package : FLEET

Certificate L2367

Contact: TECHNICIAN ACCOUNT

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F: