

OIL ANALYSIS REPORT



Machine Id

M120 Component Top Gearbox Fluid GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

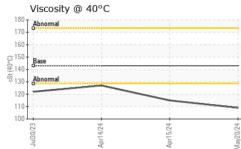
Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0941222	WC0858468	WC0858467
Sample Date		Client Info		20 May 2024	15 Apr 2024	14 Apr 2024
Machine Age	hrs	Client Info		25630	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	14	88	37
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	2	1
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	13	5	5
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	0	1	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	12	2	13	8
Calcium	ppm	ASTM D5185m	150	16	66	43
Phosphorus	ppm	ASTM D5185m	1650	1393	891	611
Zinc	ppm	ASTM D5185m	125	160	219	67
Sulfur	ppm	ASTM D5185m	22500	39398	26134	20501
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	10	5
Sodium	ppm	ASTM D5185m	>170	•	0	<1
			>170	2	3	
Potassium	ppm	ASTM D5185m		2 <1	2	2
Potassium VISUAL	ppm	ASTM D5185m method				2 history2
	ppm scalar		>20	<1	2	
VISUAL White Metal		method	>20 limit/base	<1 current	2 history1	history2
VISUAL White Metal Yellow Metal	scalar	method *Visual	>20 limit/base NONE	<1 current NONE	2 history1 NONE	history2 NONE
VISUAL White Metal Yellow Metal Precipitate	scalar scalar	method *Visual *Visual	>20 limit/base NONE NONE	<1 current NONE NONE	2 history1 NONE NONE NONE NONE	history2 NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt	scalar scalar scalar	method *Visual *Visual *Visual	>20 limit/base NONE NONE NONE	<1 current NONE NONE NONE	2 history1 NONE NONE NONE	history2 NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris	scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual	>20 limit/base NONE NONE NONE NONE	<1 current NONE NONE NONE NONE	2 history1 NONE NONE NONE NONE	history2 NONE NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual	>20 limit/base NONE NONE NONE NONE	<1 Current NONE NONE NONE NONE MODER	2 history1 NONE NONE NONE NONE NONE	history2 NONE NONE NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual *Visual	>20 limit/base NONE NONE NONE NONE NONE	<1 Current NONE NONE NONE NONE NONE NONE	2 history1 NONE NONE NONE NONE NONE	history2 NONE NONE NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 limit/base NONE NONE NONE NONE NONE NORE	<1 Current NONE NONE NONE MODER NONE NONE NORML	2 history1 NONE NONE NONE NONE NONE NONE NORML	history2 NONE NONE NONE NONE NONE NONE NORML



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	FLUID PROPERTIES	method	limit/base	current	history1	history2			
	Visc @ 40°C cSt	ASTM D445	143	109	115	127			
	SAMPLE IMAGES	method	limit/base	current	history1	history2			
24	Color			no image	no image	no image			
Apr15/24	Bottom			no image	no image	no image			
	GRAPHS								
	Iron (ppm)		200-	Lead (ppm)					
	400 - Severe		150	Servere .					
	300 - 200 - Abnormal		토 100-						
	B ₂₀₀ Abnormal			Abnormal					
	100		50	+ 0					
	Jul30/23	Apr15/24 -	May20/24	Jul30/23	Apr14/24				
	⊰	Ap	Ma	⊰ Chromium (2			
	⁸⁰ Severe	1	30	Severe					
	60-		20	-					
	E 40		특 15·	Abnormal					
	20 -		10	+ 0					
	24 J3	24	- 64	53	24				
	Jul30/23 Apr14/24	Apr15/24	May20/24	Jul30/23	Apr14/24				
	Copper (ppm) Silicon (ppm)								
	500 400		140	Severe					
	_ 300 -		100- = 80-						
	Ed. 200 - Abnormal		d 60	Abnormal					
	100 -		40-20-	•					
	24	/24	- 124	/23	74				
	Jul30/23	Apr15/24	May20/24	Jul30/23	Apr14/24				
	Viscosity @ 40°C		1500	Additives					
	180 - Abnormal		1300	calcium	orus	- The Real Production of			
			1000- E	Zinc		NAME AND ADDRESS OF ADDRE			
	양 말 140 - <mark>Base</mark> 중 4 Abnormal		500-	Treibertentententent	Restant Constraint Constraints				
	120-								
	Jul30/23	Apr15/24	0/24	Jul30/23	4/24	4			
	Jul3	Aprl	May20/24	Jul3	Apr14/24				
Laboratory Sample No. Lab Number Unique Number Test Package	: 06200603 Tes : 11062726 Dia	sted : 05	y, NC 27513 5 Jun 2024 6 Jun 2024 Jun 2024 - Don		INTERSTATE WASTE-NEWAR 110 EVERGREEN AVE, BAY NEWARK, N US 0711 Contact: Robert Wityns				
discuss this sample report	t, contact Customer Service at	contact Customer Service at 1-800-237-1369.							
	t are outside of the ISO 17025 s pecifications are based on the			rule (JCGM 1	06:2012)	ד F			

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Contact/Location: Robert Witynski - INT110NEW