

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

Component Gear Reducer Fluid GEAR OIL ISO 680 (--- GAL)

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

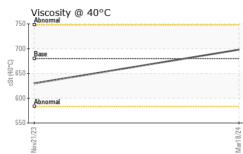
#### Fluid Condition

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

			Nov2023	Mar2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0752063	WC0799286	
Sample Date		Client Info		18 Mar 2024	21 Nov 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINATIC	NI.	method	limit/base	-		biotony2
	VIN				history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>250	9	21	
Chromium	ppm	ASTM D5185(m)	>5	0	0	
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	<1	
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	
Lead	ppm	ASTM D5185(m)	>50	3	0	
Copper	ppm	ASTM D5185(m)	>50	2	<1	
Tin	ppm	ASTM D5185(m)	>5	0	0	
Antimony	ppm	ASTM D5185(m)	>5	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	2	<1	
Barium	ppm	ASTM D5185(m)	15	0	3	
Molybdenum	ppm	ASTM D5185(m)	15	0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)	50	0	0	
Calcium	ppm	ASTM D5185(m)	50	<1	12	
Phosphorus	ppm	ASTM D5185(m)	350	217	277	
Zinc	ppm	ASTM D5185(m)	100	3	3	
Sulfur	ppm	ASTM D5185(m)	12500	13633	9419	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>60	0	7	
Sodium	ppm	ASTM D5185(m)		<1	2	
Potassium	ppm	ASTM D5185(m)	>20	<1	0	
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	VISUAL		method	limit/base	current		history2
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
	Precipitate	scalar	Visual*	NONE	NONE	NONE	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	VLITE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Mar18,24	Appearance	scalar	Visual*	NORML	NORML	NORML	
Mar	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
	Free Water	scalar	Visual*		NEG	NEG	
	FLUID PROPERT	<b>FIES</b>	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)	680	698	630	
	SAMPLE IMAGES	S	method	limit/base	current	history1	history2
	Color						no image
	Bottom				2-08 KEM		no image
	GRAPHS						
	Iron (ppm) <sup>600</sup>			150	Lead (ppm)		
	Abnormal			E <sup>100</sup>	Abnormal		
	200			= 50			
	1/23						3/24
	Nov21/23			Mar18/24	Nov21/23		Mar18/24
	_ Aluminum (ppm)				_ Chromium (pr	om)	
	60 T				T :		
	a 40 Abnormal			ша <sup>10</sup>	Abnormal		
	20 - 0				, T <b>4</b>		
	1/23						3/24
	Nov21/23			Mar18/24	Nov21/23		Mar18/24
	Copper (ppm)				Silicon (ppm)		
	100 Severe			150	Severe		
	E 50 - Abnormal			E 100	Abnormal		
				<sup>-</sup> 50			
	1/23			8/24 -	1/23		8/24
	Nov21/23			Mar18/24	Nov21/23		Mar18/24
	Viscosity @ 40°C			400	Additives		
	800 Abnormal 700 Base				calcium		
	200 - Base දේ 600 - Abnormal			튭 200	) - MARAGANANANA phosphorus	3	
	500						
	Nov21/23			Mar18/24	Nov21/23		Mar18/24
CALA CALA Laboratory Sample No. Lab Number	: WearCheck - C8-1175 : WC0752063	Rece Teste	ived : 28 ed : 28		_ 5H9 Copper Cl	IFF SMELTER WAREHO	r Cliff Smelter

Report Id: INCOCCSMR [WCAMIS] 02625380 (Generated: 03/28/2024 16:41:22) Rev: 1

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