

OIL ANALYSIS REPORT

Sample Rating Trend





20-80 Component Swing Drive



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: ConocoPhillips gear oil 80w/90)

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 INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0802424	WC0619369	
Sample Date		Client Info		25 May 2023	26 Aug 2022	
Machine Age	hrs	Client Info		6026	5538	
Oil Age	hrs	Client Info		488	5241	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>400	49	44	
Chromium	ppm	ASTM D5185m		<1	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m	210	0	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	1	0	
Lead	ppm	ASTM D5185m	>50	0	<1	
Copper	ppm	ASTM D5185m		0	<1	
Tin	ppm		>10	0	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
	pp			-		bioto m O
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		47	40	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	<1	
Manganese	ppm	ASTM D5185m		2	1	
Magnesium	ppm	ASTM D5185m		4	15	
Calcium	ppm	ASTM D5185m		10	6	
Phosphorus	ppm	ASTM D5185m		452	406	
Zinc	ppm	ASTM D5185m		0	2	
Sulfur	ppm	ASTM D5185m		21976	16884	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	3	
Sodium	ppm	ASTM D5185m		<1	1	
Potassium	ppm	ASTM D5185m	>20	1	4	
VISUAL		method	limit/base	current	history1	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	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	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		133	133	
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Report Id: MANTUL [WUSCAR] 05938006 (Generated: 08/31/2023 11:50:28) Rev: 1



OIL ANALYSIS REPORT

SAMPLE IMAGES



	Color	no image	no image	no image
Mar/25/23	Bottom	no image	no image	no image
Ra M	GRAPHS	<u>-</u>		
	Ferrous Alloys			
	iron 5 - chromium 0 - nickel			
	0			
E	5			
	5			
	0			
	5/22 5/23			
	. Aug26/22			
	Non-ferrous Metals			
	8			
	7			
E	5-			
	4			
	2			
	Aug26/22 May25/23			
2	Viscosity @ 40°C			
	0			
	0-			
cSt (40-C)	0			
53 ((0-			
	0-			
	0 - Abnormal			
1	Aug26/22			
Laboratory Sample No. Lab Number Unique Number Test Package	WearCheck USA - 501 Madison Ave., Cary, NC 2 WC0802424 Received : 29 Aug 2023 05938006 Diagnosed : 31 Aug 2023 10628618 Diagnostician : Don Baldrid CONST Constant : Don Baldrid	3 3		AND BRIDGE 122ND E AVE TULSA, OK US 74146 NCE HARMON
To discuss this sample report, co * - Denotes test methods that are	ntact Customer Service at 1-800-237-1369. outside of the ISO 17025 scope of accreditation. cations are based on the simple acceptance decision i		nce.harmon@ma T:	

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Submitted By: JAMES STEELMON

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