

## **OIL ANALYSIS REPORT**

Sample Rating Trend

**VIS DEBRIS** 



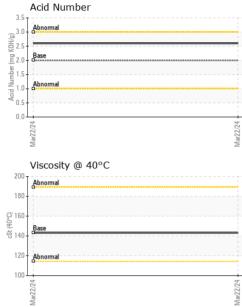
## Off-Road **E453** Component Swing Drive

## GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS	SAMPLE INFOR		mothod	limit/base	current	history1	history2
				IIIIII/Dase			
A Recommendation	Sample Number		Client Info		PCA0090479		
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		22 Mar 2024		
	Machine Age	hrs	Client Info		10810		
Wear	Oil Age	hrs	Client Info		10810		
All component wear rates are normal.	Oil Changed		Client Info		N/A		
Contamination	Sample Status				ABNORMAL		
Moderate concentration of visible dirt/debris present in the oil.	CONTAMINAT	ION	method	limit/base	current	history1	history2
Fluid Condition	Water		WC Method	>0.2	NEG		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	WEAR METAL	.S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>400	25		
	Chromium	ppm	ASTM D5185m	>10	0		
	Nickel	ppm	ASTM D5185m	>10	1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m	>25	1		
	Lead	ppm	ASTM D5185m	>50	<1		
	Copper	ppm	ASTM D5185m	>200	<1		
	Tin	ppm	ASTM D5185m	>10	<1		
	Vanadium	ppm	ASTM D5185m		0		
	Cadmium	ppm	ASTM D5185m		0		
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	400	<1		
	Barium	ppm	ASTM D5185m	200	<1		
	Molybdenum	ppm	ASTM D5185m	12	<1		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	12	11		
	Calcium	ppm	ASTM D5185m	150	36		
	Phosphorus	ppm		1650	715		
	Zinc	ppm	ASTM D5185m		16		
	Sulfur	ppm	ASTM D5185m		30926		
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>50	2		
	Sodium	ppm	ASTM D5185m	>170	2		
	Potassium	ppm	ASTM D5185m		6		
	FLUID DEGRA		method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	2.60		



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		VISUAL		method	limit/ba	se	current	history1	history2
		White Metal	scalar	*Visual	NONE		NONE		
		Yellow Metal	scalar	*Visual	NONE		NONE		
*******************************		Precipitate	scalar	*Visual	NONE		NONE		
		Silt	scalar	*Visual	NONE		NONE		
		Debris	scalar	*Visual	NONE		MODER		
		Sand/Dirt	scalar	*Visual	NONE		NONE		
	Mar22/24	Appearance	scalar	*Visual	NORML		NORML		
	Mai	Odor	scalar	*Visual	NORML		NORML		
		Emulsified Water	scalar	*Visual	>0.2		NEG		
		Free Water	scalar	*Visual			NEG		
		FLUID PROPE	RTIES	method	limit/ba	se	current	history1	history2
		Visc @ 40°C	cSt	ASTM D445	143		143		
		SAMPLE IMAG	ES	method	limit/ba	se	current	history1	history2
	2/24 -	Color					no image	no image	no image
	Mar22/24								
		Bottom					no image	no image	no image
		GRAPHS							
		Iron (ppm)					Lead (ppm)		
		1000 Severe				200	Severe		
		E 500 - Abnormal				특 100 -	Abnormal		
		0				0	-		
		Mar22/24			Mar22/24		Mar22/24		
		-			Ma				:
		Aluminum (ppm)				30 <del>-</del>	Chromium (pp	/m)	
		Severe					Severe		
		E 50 Abnormal				ط <sup>20</sup> 10	Abnormal		
		0			54	0	1		
		Mar22/24			Mar22/24		Mar22/24		
					≥				:
		Copper (ppm)				<sup>150</sup> T	Silicon (ppm)		
		Severe				E 100			
		E 200 - Abnormal				<sup>H</sup> 50-	Abnormal		
		5/24			1/24	01	2/24		
		Mar22/24			Mar22/24		Mar22/24		
		Viscosity @ 40°C				(B/F	Acid Number		
		200 Abnormal				Acid Number (mg KOH/g)	Abnormal		
		0000 Base Base				ja 2.0-	Base Abnormal		
		Abnormal				MN 0.0			
		Mar22/24			Mar22/24 -	Acic	Mar22/24		
		Mará			Marz		Mar		
		: WearCheck USA - 50	1 Madisc	on Ave., Cary	/, NC 2751	13	WIN Was	te Innovations - S	
	oratory		Rece		6 Mar 202				WINTHROP S
NAR Sam	ple No.	: PCA0090479	_		7 Mar 2024	4		7	FAUNTON, M
Sam Lab	ple No. Number	: 06129523	Teste				oldridae		
Sam Lab Unique	ple No. Number ue Number	: <mark>06129523</mark> : 10943674			Mar 2024 -		Baldridge		US 0278
Sam Lab Unique ficate L2367 Test	ple No. Number ve Number Package	: 06129523	Diagr	n <b>osed</b> : 29	Mar 2024 -		Baldridge	Contac	US 0278 ct: Dave Wilso
Sarr Lab Unique ficate 12367 Test discuss this samp Denotes test met	nple No. Number ue Number Package ple report, hods that	: <mark>06129523</mark> : 10943674 : MOB 2	<b>Diagr</b> ce at 1-8 7025 sco	nosed : 29 300-237-136 ope of accred	Mar 2024 - 9. ditation.	Don E	-	Contac dwilson@	US 0278 ct: Dave Wilso win-waste.com T F



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