

OIL ANALYSIS REPORT

Sample Rating Trend

Mar2019 Jan2020 Mar2021 Feb2022 Apr2022 Apr202



Area 90 Machine Id [90] A90 V110B

Top Gear Reducer

HIGH PERFORMANCE LUBRICANTS GEAR LIFE 220 (1 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

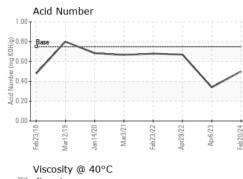
Fluid Condition

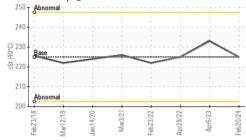
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		HPL0003923	HPL0001843	HPL0000432		
Sample Date		Client Info		20 Feb 2024	06 Apr 2023	29 Apr 2022		
Machine Age	hrs	Client Info			0	0		
Oil Age	hrs	Client Info	7000 0		0	16712		
Oil Changed		Client Info		Not Changd	Changed	Not Changd		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2		
Water		WC Method	>0.1	NEG	NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>150	1	<1	3		
Chromium	ppm	ASTM D5185m	>10	<1	0	0		
Nickel	ppm	ASTM D5185m	>10	<1	0	0		
Titanium	ppm	ASTM D5185m		<1	0	0		
Silver	ppm	ASTM D5185m		<1	<1	<1		
Aluminum	ppm	ASTM D5185m	>25	<1	0	<1		
Lead	ppm	ASTM D5185m	>100	<1	0	0		
Copper	ppm	ASTM D5185m		<1	<1	0		
Tin	ppm	ASTM D5185m	>10	<1	0	0		
Antimony	ppm	ASTM D5185m	>5					
Vanadium	ppm	ASTM D5185m		0	0	0		
Cadmium	ppm	ASTM D5185m		<1	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		3	0	12		
Barium	ppm	ASTM D5185m		5	0	0		
Molybdenum	ppm	ASTM D5185m		<1	0	0		
Manganese	ppm	ASTM D5185m		<1	<1	0		
Magnesium	ppm	ASTM D5185m		0	<1	<1		
Calcium	ppm	ASTM D5185m		59	57	142		
Phosphorus	ppm	ASTM D5185m		336	321	915		
Zinc	ppm	ASTM D5185m		378	282	1184		
Sulfur	ppm	ASTM D5185m		13489	18619	8531		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>50	1	<1	2		
Sodium	ppm	ASTM D5185m		0	0	0		
Potassium	ppm	ASTM D5185m	>20	<1	0	0		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.75	0.50	0.34	0.67		



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150ACC (7025		. : HPL0003923 er : 06097892 er : 10896122	on Ave., Cary, NC 27513 ived : 22 Feb 2024 ed : 23 Feb 2024 nosed : 23 Feb 2024 - Wes Davis			KENSING 2525 S KENSINGTON RE KANKAKEE, II US 6090 ⁻ Contact: TIM HUBERT ny.hubert@kensingsolutions.com			
		Feb 23/18 007	Mar3/21 + Feb 23/22 +	Apr29/22	Feb20/24 A Control (mg KOH/g) Acid Number (mg KOH/g) 0.0 5 0.0 10 10 10 10 10 10 10 10 10 10 10 10 10	Feb23/18	Mar3/21	Apr29/22	Apr6/23 -
		G 240 G 240 Base ti 220 Abnormal			10.5	0-			-
		260 240			<u>o</u> 1.0	Base			
		Viscosity @ 40°0							_
		Feb23/18 Mar12/19 Jan14/20	Mar3/21 Feb 23/22	Apr29/22 Apr6/23	Feb20/24	Feb23/18 Mar12/19 Jan14/20	Mar3/21 Feb 23/22	Apr29/22	Apr6/23
		0	22	22	24	20 20 20 20	22	22	23
		E 100 Abnormal			E ¹⁰	0 - Abnormal			
		200 Severe			15	0 т. Стато	· · · · · · · · · · · · · · · · · · ·		
		™ ≝ ≞ Copper (ppm)	- 13	A3	œ L	≝ ≝ ≞ Silicon (ppm)	Ee. P	Aı	~ 3
		Feb23/18 Mar12/19 Jan14/20	Mar3/21 Feb23/22	Apr29/22 Apr6/23	Feb20/24	Feb23/18 Mar12/19 Jan14/20	Mar3/21 Feb23/22	Apr29/22	Apr6/23
						0			~
		Severe			<u>الم</u>				
	Aluminum (ppm)		3	Chromium (p	pm)			
				Apri Apri	Feb		L	Aprá	Ap
		Feb23/18 +	Mar3/21 - Feb23/22 -	Apr29/22 -	Feb20/24	Feb23/18	Mar3/21 -	Apr29/22	Apr6/23 .
		톱 200 - Abnormal				0 Abnormal			
		Severe			20 E 10				
	Iron (ppm)			30	Lead (ppm)				
		GRAPHS							
		Bottom				no image	no image	no	image
Mar3/21 +	Apr29/22 + Apr6/23 +	Color				no image	no image	no	image
		SAMPLE IMAG	ES	method	limit/base	current	history1	hi	story2
	\leq	Visc @ 40°C	cSt	ASTM D445	225	225	233	225	5
	\wedge	FLUID PROPER		method	limit/base	current	history1		story2
	· · · · · ·	Free Water	scalar	*Visual		NEG	NEG	NE	
		Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NE	
Feb 23/22 Apr29/22 Apr6/23 Feb 20/24		0401	scalar	*Visual	NORML	NORML	NORML		RML
Feb23/22 + Apr29/22 + Apr6/23 + Feb20/24 +			scalar	*Visual	NORML	NORML	NORML		RML
		_ Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NO	
Ý	Silt Debris	scalar scalar	*Visual *Visual	NONE	NONE NONE	NONE	NO NO		
	$\backslash \nearrow$	Precipitate	scalar	*Visual	NONE	NONE	NONE	NO	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NO		
	White Metal	scalar	*Visual	NONE	NONE	NONE	NO	NE	

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