

## **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

#### Area DINNERS [98709269 AFTER] Machine Id L21 PASTA FILLER HEAD Component

**Gearbox** 

### GEAR OIL ISO 320 (--- 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. The amount and size of particulates present in the system are acceptable.

#### Fluid Condition

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

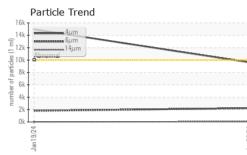
			Jan2024	Jan2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0114274	PCA0114273	
Sample Date		Client Info		20 Jan 2024	19 Jan 2024	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ATTENTION	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	4	4	
Chromium	ppm	ASTM D5185m	>15	<1	<1	
Nickel	ppm	ASTM D5185m	>15	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	3	3	
Lead	ppm	ASTM D5185m	>100	0	0	
Copper	ppm	ASTM D5185m	>200	<1	<1	
Tin	ppm	ASTM D5185m	>25	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	0	0	
Barium	ppm	ASTM D5185m	15	0	0	
Molybdenum	ppm	ASTM D5185m	15	0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	50	<1	0	
Calcium	ppm	ASTM D5185m	50	0	<1	
Phosphorus	ppm	ASTM D5185m	350	310	340	
	ppm ppm	ASTM D5185m ASTM D5185m	350 100	310 32	340 43	
Zinc						
Zinc	ppm ppm	ASTM D5185m	100	32	43	
Zinc Sulfur CONTAMINAN	ppm ppm	ASTM D5185m ASTM D5185m	100 12500 limit/base	32 496	43 439	
Zinc Sulfur CONTAMINAN Silicon	ppm ppm TS	ASTM D5185m ASTM D5185m method	100 12500 limit/base	32 496 current	43 439 history1	
	ppm ppm TS ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	100 12500 limit/base >50	32 496 current 9	43 439 history1 17	  history2
Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m ASTM D5185m	100 12500 limit/base >50	32 496 current 9 0	43 439 history1 17 0	 history2 
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m ASTM D5185m	100 12500 limit/base >50 >20	32 496 current 9 0 <1	43 439 history1 17 0 1	 history2  
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m Method	100 12500 limit/base >50 >20 limit/base >10000	32 496 current 9 0 <1 current	43 439 history1 17 0 1 1 history1	history2    history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647	100 12500 limit/base >50 >20 limit/base >10000	32 496 current 9 0 <1 current 9616	43 439 history1 17 0 1 1 history1 ▲ 14962	 history2   history2 
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >6µm Particles >14µm	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647	100 12500 imit/base >50 >20 imit/base >20 imit/base >2000 >2500 >640	32 496 current 9 0 <1 current 9616 2226	43 439 history1 17 0 1 1 history1 1 4 14962 1813	 history2   history2 
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	100 12500 imit/base >50 >20 imit/base >20 imit/base >2000 >2500 >640	32 496 current 9 0 <1 current 9616 2226 59	43 439 history1 17 0 1 1 history1 ▲ 14962 1813 23	 history2   history2  
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	100 12500 12500 >50 >20 >20 <u>limit/base</u> >10000 >2500 >640 >160 >40	32 496 current 9 0 <1 current 9616 2226 59 9	43 439 history1 17 0 1 1 history1 ▲ 14962 1813 23 4	 history2   history2   
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	100 12500 12500 >50 >20 >20 <u>limit/base</u> >10000 >2500 >640 >160 >40	32 496 current 9 0 <1 current 9616 2226 59 9 0	43 439 history1 17 0 1 1 history1 ▲ 14962 1813 23 4 4 0	 history2   history2   
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm TS ppm ppm _INESS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	100 12500 12500 >50 >20 20 1imit/base >10000 >2500 >640 >160 >40 >40 >10	32 496 current 9 0 <1 current 9616 2226 59 9 0 0 0	43 439 history1 17 0 1 1 history1 ▲ 14962 1813 23 4 0 0 0	 history2   history2     
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness	ppm ppm TS ppm ppm _INESS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	100 12500 12500 >50 >20 >20 <u>10000</u> >2500 >640 >160 >40 >10 >10 >20/18/16	32 496 current 9 0 <1 current 9616 2226 59 9 0 0 0 20/18/13	43 439 history1 17 0 1 1 history1 ▲ 14962 1813 23 4 3 4 0 0 0 0 0	 history2   history2        -

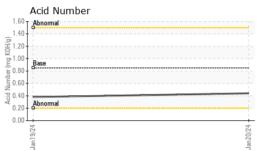
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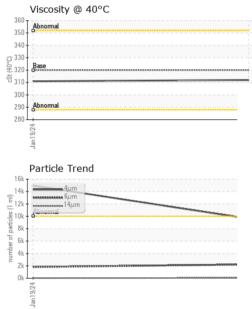
Contact/Location: Service Manager - KRASPRMO



# **OIL ANALYSIS REPORT**







	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	LIGHT	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
lan 20/24	Appearance	scalar	*Visual	NORML	NORML	NORML	
, un c	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	
	FLUID PROPE	RTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	320	312	311	
	SAMPLE IMAG						history
	SAIVIPLE IIVIA	353	method	limit/base	current	history1	history2
Jan 20,74 +	Color						no image
	Bottom						no image
	GRAPHS						
	Ferrous Alloys			401 520	Particle Count		2
	10 8 iron			491,520			T <sup>2</sup>
	assesses chromium			122,880	Severe		-2
				30,720			-2
	2				Abnormal		<sup>2</sup>
	0 Linnan			7,680	-	<b>4</b>	-2
	lan 19/24			Jan 20/24 (per 1 ml			+2
	Jan			Jan 2002 42002 Jan 2002 42002 Jan 1,920 42002 Jan 1,920 42000 420000 Jan 1,92000 40000 Jan 1,9	1.		
	Non-ferrous Meta	ls		otted 480			1
	10 copper			jo ja 120			
	ananana lead						
				30	) -		+1
	2						-1
	0 42		<del></del>	54	-		-8
				Jan20/24			
	Jan 19,						
	Viscosity @ 40°C			-	4µ 6µ	14μ 21μ	38µ 71µ
	المعالم (Wiscosity @ 40°C <sup>360</sup> کامین				<sup>4μ</sup> 6μ Acid Number	14µ 21µ	38µ 71µ
	Viscosity @ 40°C				<sup>4μ</sup> 6μ Acid Number	14μ 21μ	38µ 71µ
	Viscosity @ 40°C				<sup>4μ</sup> 6μ Acid Number	14μ 21μ	38µ 71µ
	Viscosity @ 40°C				<sup>4μ</sup> 6μ Acid Number	14μ 21μ	38μ 71μ
	Viscosity @ 40°C				<sup>4μ</sup> 6μ Acid Number	14μ 21μ	38µ 71µ
	Viscosity @ 40°C			(PH 0.50 PH 0.50 PH 0.50 PH 0.50 PH 0.50 PH 0.50	Acid Number	14μ 21μ	38μ 71μ
	Viscosity @ 40°C				<sup>4μ</sup> 6μ Acid Number	14μ 21μ	38µ 71µ
Laboratory Sample No. Lab Number Unique Number Test Package discuss this sample report,	Viscosity @ 40°C	Recieved Diagnose Diagnost Tests: PrtC	l : 26 ; ed : 01   ician : Jon Count )	ry, NC 27513 Jan 2024 Feb 2024 athan Hester	4μ 6μ Acid Number	nz - Springfield - 203 SPRI	

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact/Location: Service Manager - KRASPRMO