

OIL ANALYSIS REPORT

T

[450245710] 23001-LP

Component **Heat Transfer Fluid** HEAT TRANSFER FLUID ISO 32 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. LUBE360 Oil Diagnostics recommends using HTTFL sample kits for heat transfer fluids. Please contact us at 1-800-268-2131 and provide a purchase order for \$245 + HST in order to conduct additional testing (boiling points @ 10%, 50%, and 90%, percent boiling < 335°C, and solids) to determine the suitability for continued use. Please contact your representative for information regarding the proper sampling kits for your service.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the component(unconfirmed).

Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is acceptable for the time in service (unconfirmed).

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	24	Ja	ep2014	Sep2

Sample Rating Trend

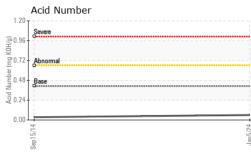


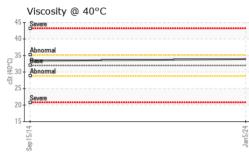
RMAL

			Sep2014	Janzuz4		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0052507	PC	
Sample Date		Client Info		05 Jan 2024	15 Sep 2014	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.0601	NEG	NEG	
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	<1	<1	
Chromium	ppm	ASTM D5185(m)	>21	0	0	
Nickel	ppm	ASTM D5185(m)	>21	0	<1	
Titanium	ppm	ASTM D5185(m)	>21	0	0	
Silver	ppm	ASTM D5185(m)	>21	0	0	
Aluminum	ppm	ASTM D5185(m)	>21	<1	0	
Lead	ppm	ASTM D5185(m)	>21	0	0	
Copper	ppm	ASTM D5185(m)	>21	<1	<1	
Tin	ppm	ASTM D5185(m)	>21	0	0	
Antimony	ppm	ASTM D5185(m)	>21	0	<1	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	0	0	
Barium	ppm	ASTM D5185(m)	5	0	0	
Molybdenum	ppm	ASTM D5185(m)	5	0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)	5	0	<1	
Calcium	ppm	ASTM D5185(m)	5	0	<1	
Phosphorus	ppm	ASTM D5185(m)	250	3	110	
Zinc	ppm	ASTM D5185(m)	5	2	1	
Sulfur	ppm	ASTM D5185(m)	3000	686	47	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<1	<1	
Sodium	ppm	ASTM D5185(m)	>21	<1	<1	
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.41	0.06	0.034	

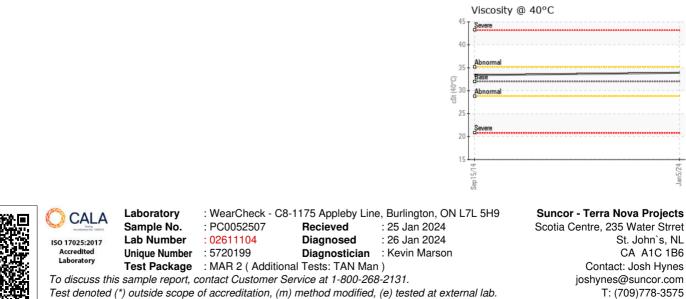


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Precipitate	scalar	Visual*	NONE	NONE	NONE	
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	VLITE	VLITE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.0601	NEG	NEG	
Free Water	scalar	Visual*		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	32	33.9	33.4	
SAMPLE IMAG	iES	method	limit/base	current	history1	history2
Color						no image
Bottom						no image
GRAPHS						



Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Josh Hynes - TERHAM

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