

OIL ANALYSIS REPORT

100000067912] HPU 003

Component

Hydraulic System

ESSO NUTO H ISO 32 (260 LTR)

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

				Sep2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0779185		
Sample Date		Client Info		13 Sep 2023		
Machine Age	hrs	Client Info		88270		
Oil Age	hrs	Client Info		12960		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	0		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>20	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>20	0		
Lead	ppm	ASTM D5185(m)	>20	0		
Copper	ppm	ASTM D5185(m)	>20	<1		
Tin	ppm	ASTM D5185(m)	>20	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		0		
Calcium	ppm	ASTM D5185(m)		52		
Phosphorus	ppm	ASTM D5185(m)		323		
Zinc	ppm	ASTM D5185(m)		428		
Sulfur	ppm	ASTM D5185(m)		4392		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	0		
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1683		
Particles >6µm		ASTM D7647	>1300	558		
Particles >14µm		ASTM D7647	>160	90		
Particles >21µm		ASTM D7647	>40	29		
Particles >38µm		ASTM D7647	>10	3		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/14		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2

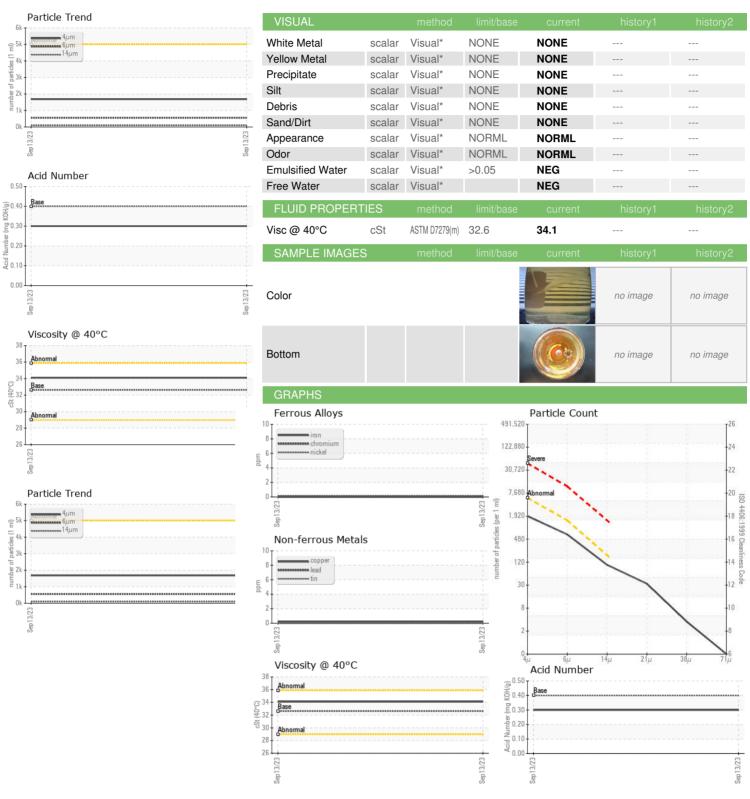
Acid Number (AN)

mg KOH/g ASTM D974* .40

Contact/Location: Gary Gazankas - ALGMIS



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

Test Package

: WC0779185

: 02589612 : 5658678 : IND 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ALGONQUIN POWER SYSTEMS INC. Received : 17 Oct 2023 Diagnosed : 18 Oct 2023

: Wes Davis Diagnostician

354 DAVIS ROAD OAKVILLE, ON

Contact: Gary Gazankas gary.gazankas@algonquinpower.com T: (905)465-6119

To discuss this sample report, contact Customer Service at 1-800-268-2131. 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.

CA L6J 2X1

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