

OIL ANALYSIS REPORT

Sample Rating Trend



Inland Iron and Metal - 888041 AG231M

Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (--- LTR)

DIAGNOSIS

A Recommendation

This is a baseline read-out on the submitted sample.

🔺 Wear

Aluminum, copper and iron ppm levels are noted.

Contamination

Water and ppm water contamination levels are abnormal. Particles $>4\mu$ m are abnormally high. Particles $>6\mu$ m and oil cleanliness are abnormally high. Silicon ppm levels are notably high.

Fluid Condition

{not applicable}

				Jan2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine ID		Client Info		Mixture		
Department		Client Info		Sales		
Sample From		Client Info		Machine		
Production Stage		Client Info		Initial		
Sent to WC		Client Info		01/15/2024		
Sample Number		Client Info		E30001145		
Sample Date		Client Info		15 Jan 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	1 28		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>20	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>20	5		
Lead	ppm	ASTM D5185(m)	>20	10		
Copper	ppm	ASTM D5185(m)	>20	1 2		
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)	5	<1		
Barium	ppm	ASTM D5185(m)	5	0		
Molybdenum	ppm	ASTM D5185(m)	5	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	25	5		
Calcium	ppm	ASTM D5185(m)	200	38		
Phosphorus	ppm	ASTM D5185(m)	300	336		
Zinc	ppm	ASTM D5185(m)	370	321		
Sulfur	ppm	ASTM D5185(m)	2500	1560		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	1 8		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	3		
Water	%	ASTM D6304*		0.156		
ppm Water	ppm	ASTM D6304*	>500	A 1564		



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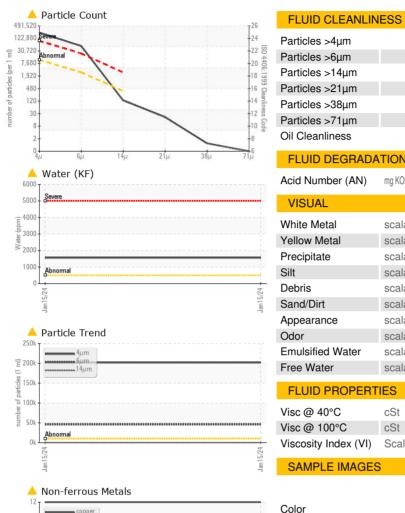
Jan 15/24

🔺 Ferrous Alloys

nickel

ppm

OIL ANALYSIS REPORT



	T ²⁶	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
	-24 -22 8	Particles >4µm		ASTM D7647		<u> </u>		
	20 440	Particles >6µm		ASTM D7647	>2500	<u> </u>		
	-20 4406:1999	Particles >14µm		ASTM D7647		114		
	110 0	Particles >21µm		ASTM D7647		18		
	-14 liness	Particles >38µm		ASTM D7647		1		
	10 Gd	Particles >71µm		ASTM D7647		0		
	-8	Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u> </u>		
21µ 38µ	71µ	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
		Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.34		
		VISUAL		method	limit/base	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		
	/24	Debris	scalar	Visual*	NONE	NONE		
	Jan 15/24	Sand/Dirt	scalar	Visual*	NONE	NONE		
		Appearance	scalar	Visual*	NORML	HAZY		
		Odor	scalar	Visual*	NORML	NORML		
		Emulsified Water	scalar	Visual*	>0.05	.2%		
		Free Water	scalar	Visual*		NEG		
		FLUID PROPERT	IES	method	limit/base	current	history1	history2
		Visc @ 40°C	cSt	ASTM D7279(m)	46	45.9		
	0000000	Visc @ 100°C	cSt	ASTM D7279(m)	6.7	8		
	24	Viscosity Index (VI)	Scale	ASTM D2270*	97	146		
	Jan15/24	SAMPLE IMAGES	S	method	limit/base	current	history1	history2
		Color					no image	no image
		Bottom					no image	no image
	4 Jan15/24							
	Jan 15/24							
International Samp International Samp Intern	ratory ble No. Number e Number Package de report, c	: 02609404	Recieved Diagnos Diagnost ests: KF,	d : 17 . ed : 19 . ician : Tati KV100, VI)	Jan 2024 Jan 2024 ana Sorkina		Contact: 1	Solutions Lt Victoria Stre Cobourg, C CA K9A 5H Tatiana Sorkir kina@e360s.c

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Validity of results and interpretation are based on the sample and information as supplied.

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