

OIL ANALYSIS REPORT

Area
Chem-Ecol A2407005

Hydraulic System

CHEM-ECOL HYDRAULIC 46 ZFD (--- GAL)

Sample Rating Trend



Recommendation

We certify that this oil is clean, that the additives are at acceptable levels, and that it is suitable for use.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Batch #		Client Info		3137-A		
Department		Client Info		Production		
Sample From		Client Info		Machine		
Production Stage		Client Info		Final		
Sent to WC		Client Info		07/03/2024		
Sample Number		Client Info		E30002553		
Sample Date		Client Info		02 Jul 2024		
Machine Age	hrs	Client Info		0		
Dil Age	hrs	Client Info		0		
Oil Changed	1110	Client Info		N/A		
Sample Status		Olioni inio		NORMAL		
<u> </u>						
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>20	<1		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>20	0		
- itanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Muminum	ppm	ASTM D5185(m)	>20	0		
ead	ppm	ASTM D5185(m)	>20	0		
Copper	ppm	ASTM D5185(m)	>20	<1		
- īn	ppm	ASTM D5185(m)	>20	0		
Antimony	ppm	ASTM D5185(m)		0		
/anadium	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)		0		
Barium	ppm	ASTM D5185(m)		0		
Nolybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		1		
Calcium	ppm	ASTM D5185(m)		259		
Phosphorus	ppm	ASTM D5185(m)		166		
Zinc	ppm	ASTM D5185(m)		1		
Sulfur	ppm	ASTM D5185(m)		996		
_ithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1		
Sodium	ppm	ASTM D5185(m)	210	1		
Potassium	ppm	ASTM D5185(m)	>20	0		
Vater	%	ASTM D5165(III) ASTM D6304*	>0.05	0.003		
	70	7.0 TWI D0004	20.00	0.000		

ASTM D6304* >500

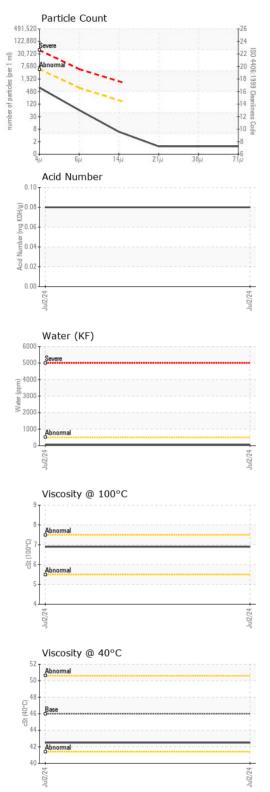
ppm

39

ppm Water



OIL ANALYSIS REPORT



FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	646		
Particles >6µm		ASTM D7647	>640	55		
Particles >14µm		ASTM D7647	>160	5		
Particles >21µm		ASTM D7647	>40	1		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/16/14	17/13/10		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		80.0		
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		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.05	NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	42.5		
Visc @ 100°C	cSt	ASTM D7279(m)		6.9		
Viscosity Index (VI)	Scale	ASTM D2270*		119		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image



CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

: E30002553 Lab Number : 02645884 Unique Number : 5811436

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 05 Jul 2024

Received **Tested** : 08 Jul 2024 Diagnosed : 10 Jul 2024 - Tatiana Sorkina

Test Package : IND 2 (Additional Tests: KF, KV100, VI) To discuss this sample report, contact Customer Service at 1-905-372-2251.

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.

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