

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id H5 Component Hydraulic System Fluid MOBIL (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

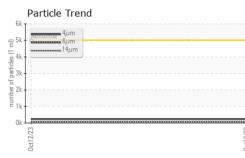
Fluid Condition

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

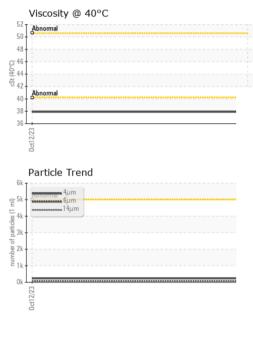
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PTK0004249		
Sample Date		Client Info		12 Oct 2023		
Machine Age	hrs	Client Info		315		
Oil Age	hrs	Client Info		315		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	0		
Lead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	0		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		17		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		15		
Phosphorus	ppm	ASTM D5185m		138		
Zinc	ppm	ASTM D5185m		138		
Sulfur	ppm	ASTM D5185m		384		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	2		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	229		
Particles >6µm		ASTM D7647	>1300	58		
Particles >14µm		ASTM D7647	>160	10		
Particles >21µm		ASTM D7647	>40	2		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/13/10		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.32		



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White Metal Yellow Metal Precipitate Silt Debris	scalar scalar scalar	*Visual *Visual	NONE	NONE		
Precipitate Silt			NONE			
Silt	scalar			NONE		
		*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Debilo	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		
	scalar	*Visual		NEG		
		method	limit/base	current	history1	history2
		ASTM D445		37.9		
SAMPLE IMAGES	8	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
Ferrous Alloys				Particle Count Severe Abnormal		-24 -24 -22 -18 -16 -14
10 8 6 4 2	S		9 480 50 120 30 30			-14 -14 -12 -10
			t12/23			-8
_			0 4	μ 6μ 1	4μ 21μ	38µ 71µ
Viscosity @ 40°C				Acid Number		, F
Abnormal			(B)HC			
50 + T) 0.30 ᄩ	1		
45			ja 0.20			
40 - Abnormal						
35			0.00-	~		
:12/2			::12/2:	412/2		
: PTK0004249 F : 05981888 F	Received Diagnose	:17 (ed:19 (Oct 2023 Oct 2023		1535 E LA	
	Free Water FLUID PROPERT Visc @ 40°C SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys GRAPHS Ferrous Alloys Viscosity @ 40°C Viscosity @ 40°C	Free Water scalar FLUID PROPERTIES Visc @ 40°C cSt SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys Image: Second stress of the second str	Free Water scalar *Visual FLUID PROPERTIES method Visc @ 40°C cSt ASTM D445 SAMPLE IMAGES method Color Bottom Image: Color and the colo	Free Water scalar *Visual FLUID PROPERTIES method limit/base Visc @ 40°C cSt ASTM D445 SAMPLE IMAGES method limit/base Color Bottom Imit/base Bottom Imit/base Imit/base Visc @ 40°C Imit/base Imit/base Color Imit/base Imit/base Bottom Imit/base Imit/base Viscosity @ 40°C Imit/base Imit/base Viscosity @ 40°C Imit/base Imit/base Imit/base Imit/base Imit/base Imit/base <thimit base<="" th=""></thimit>	Free Water scalar Visual NEG FLUID PROPERTIES method limit/base current Visc @ 40°C cSt ASTM D445 37.9 SAMPLE IMAGES method limit/base current Color Imit/base current Bottom Imit/base current SAMPLE IMAGES method limit/base current Color Imit/base current Imit/base current Bottom Imit/base Imit/base current Viscosity Alloys Particle Count Imit/base Imit/base Imit base Imit/base Imit/base Imit/base Imit/base Source Imit base Imit/base Imit/base Imit/base Bottom Imit base Imit/base Imit/base Imit/base Viscosity @ 40°C Imit base Imit base Imit base Imit base Viscosity @ 40°C Imit base Imit base Imit base Imit base Imit base Imit base Imit base Imit base Imit base	Free Water scalar 'Visual NEG FLUID PROPERTIES method limit/base current history1 Visc @ 40°C cSt ASTM D445 37.9 SAMPLE IMAGES method limit/base current history1 Color Imit/base current history1 Color Imit/base current history1 Bottom Imit/base current history1 Non-ferrous Metals Imit/base Particle Count Imit dual Imit dual Imit dual Imit dual Viscosity @ 40°C Imit dual Imit dual Imit dual Second Count Imit dual Imit dual Imit dual Imit dual Imit dual Imit dual

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

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Contact/Location: Service Manager - NIALAN Page 2 of 2