

OIL ANALYSIS REPORT

[COMBILINE] HYDR-007 HYDRAULIC SUMP 007

Component 2 Hydraulic System

MOBIL DTE 10 EXCEL 46 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

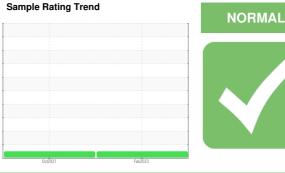
All component wear rates are normal.

Contamination

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

Fluid Condition

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

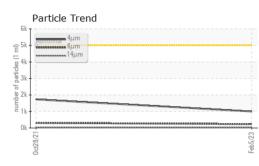


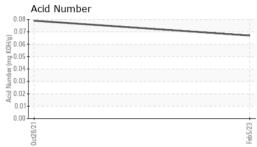


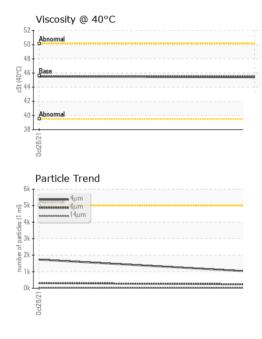
			0et2021	Feb2023		
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0701748	WC0620157	
Sample Date		Client Info		05 Feb 2023	28 Oct 2021	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>30	0	<1	
Chromium	ppm	ASTM D5185m	>2	0	0	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>2	0	0	
Lead	ppm	ASTM D5185m	>10	0	<1	
Copper	ppm	ASTM D5185m	>25	<1	<1	
Tin	ppm	ASTM D5185m	>20	0	<1	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	2	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		0	<1	
Calcium	ppm	ASTM D5185m		104	101	
Phosphorus	ppm	ASTM D5185m		357	404	
Zinc	ppm	ASTM D5185m		7	3	
Sulfur	ppm	ASTM D5185m		1485	1903	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	2	
Sodium	ppm	ASTM D5185m		1	1	
Potassium	ppm	ASTM D5185m	>20	0	<1	
Water	%	ASTM D6304	>0.05	NEG	NEG	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	999	1731	
Particles >6µm		ASTM D7647	>1300	236	307	
Particles >14µm		ASTM D7647	>160	19	18	
Particles >21µm		ASTM D7647	>40	3	2	
Particles >38µm		ASTM D7647	>10	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/11	18/15/11	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.067	0.079	



OIL ANALYSIS REPORT







White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar	*Visual *Visual *Visual	NONE NONE	NONE NONE	NONE NONE	
Precipitate Silt Debris	scalar scalar		NONE	NONE	NONE	
Silt Debris	scalar scalar	*Visual			INDINE	
Silt Debris			NONE	NONE	NONE	
Debris		*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
		*Visual	NONE	NONE	NONE	
Appearance		*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water		*Visual	>0.05	NEG	NEG	
Free Water		*Visual		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.6	45.4	45.5	
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color						no image
Bottom				\bigcirc		no image
GRAPHS						
Ferrous Alloys						
			491,52	ľ		T ²⁶
o - chromium			122,88			-24
4			20.72	Severe		
2			30,72			+22
0				Abnormal		-20
28/21			5/23			10
000			명 명 1,92		•	-20 -18 -16 -14
Non-ferrous Metals	s		apite 48			-16
10 copper 1			ar of p		`	
0 - management lead			aq 12			14
6 tin				-	\	-12
4						-10
2						
8/21			5/23	2-		-8
0ct2			Feb			
Viscosity @ 40°C					14μ 21μ	38µ 71µ
55 T			-0.0			
50 - Abnormal			KOH K			
Base			Ĕ.			
			a de la de l	•		
40 - Abhoima			Ž 0.0	2		
35						
0ct28/			Feb 5/2	0ct28/		
: WC0701748 F : 05759382 F : 10323989 F : PLANT	Recieved Diagnose Diagnosti	: 06 F d : 07 F cian : Jon	eb 2023 eb 2023 athan Heste	r	520 NOKIAN	TYRES DRIN DAYTON, T US 3732 HRIS NAPIE
	Free Water FLUID PROPERT Visc @ 40°C SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys One of the sector of the ISO 1	Free Water scalar FLUID PROPERTIES Visc @ 40°C cSt SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys Non-ferrous Metals Viscosity @ 40°C Viscosity @ 40°C Second Second	Free Water scalar *Visual FLUID PROPERTIES method Visc @ 40°C cSt ASTM D445 SAMPLE IMAGES method Color Bottom GRAPHS Ferrous Alloys	Free Water scalar *Visual FLUID PROPERTIES method limit/base Visc @ 40°C cSt ASTM D445 45.6 SAMPLE IMAGES method limit/base Color Entropy method limit/base Bottom Image: State of the state of th	Free Water scalar "Visual NEG FLUID PROPERTIES method limit/base current Visc @ 40°C cSt ASTM D445 45.6 45.4 SAMPLE IMAGES method limit/base current Color Imit/base current Bottom Imit/base current Visc @APHS Ferrous Alloys Particle Count Imit base Imit base Imit base Viscosity @ 40°C Imit base Imit base Imit base Imit base Imit base Viscosity @ 40°C Imit base Imit base Imit base Imit base Imit base Viscosity @ 40°C Imit base Imit base Imit base Imit base Imit base Viscosity @ 40°C Imit base Imit base Imit base Imit base Imit base Imi	Free Water scalar Visual NEG NEG FLUID PROPERTIES method limit/base current history1 Visc @ 40°C cS1 ASTM D445 45.6 45.4 45.5 SAMPLE IMAGES method limit/base current history1 Color Imit/base current history1 Bottom Imit/base current history1 GRAPHS Ferrous Alloys Imit/base Particle Count Imit/base Imit/base Imit/base Imit/base Viscosity @ 40°C Imit/base Imit/base Imit/base Viscosity @ 40°C Imit/base Imit/base Imit/base 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/bas

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

Ĕ