WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

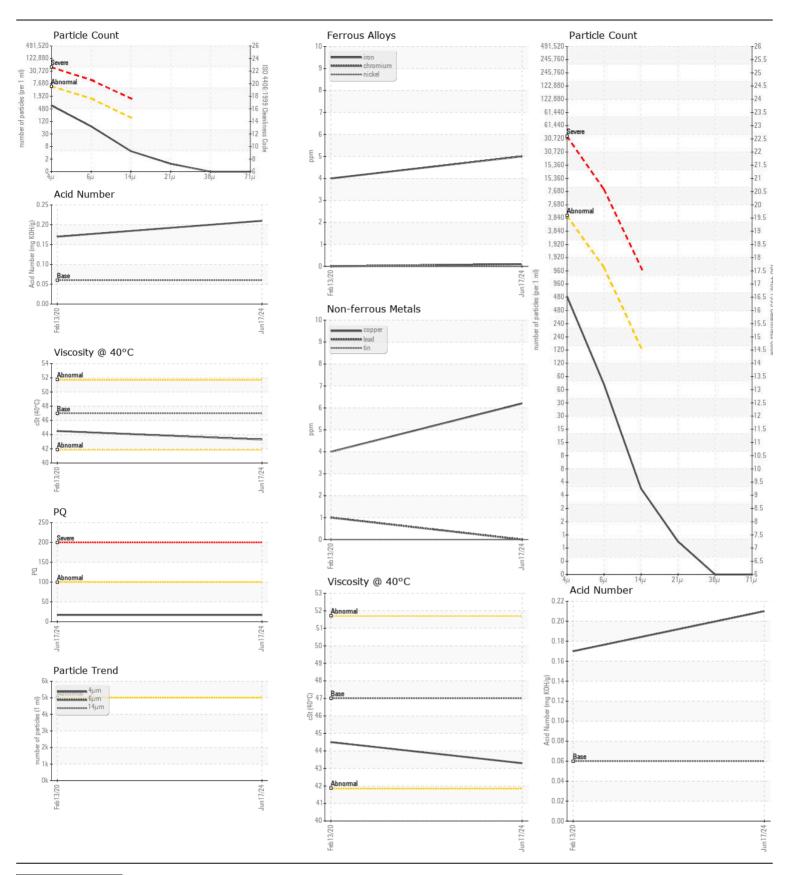
GM Seattle Off Raod Shop

[GM Seattle Off Raod Shop] 24-840

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
1233MM2N3/NTON	Sample Number		Client Info		PE0003093	PE12291688	
Resample at the next service interval to monitor.	Sample Date		Client Info		17 Jun 2024	13 Feb 2020	
	Machine Age	hrs	Client Info		4452	2911	
	Oil Age	hrs	Client Info		4452	2911	
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL	NORMAL	
WEAR	PQ		ASTM D8184		17		
	Iron	ppm	ASTM D5185m	>20	5	4	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	710	0	0	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m	>10	0	0	
	Lead	ppm	ASTM D5185m		0	1	
	Copper	ppm	ASTM D5185m		6	4	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m	710	<1	0	
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m	> 20	1	1	
	Potassium	ppm	ASTM D5185m		1	0	
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.		ppm	WC Method		NEG	NEG	
	Water						
	Particles >4µm Particles >6µm		ASTM D7647 ASTM D7647		610		
	Particles >0µm		ASTM D7647		61 4		
					1		
	Particles >21µm		ASTM D7647		0		
	Particles >38µm		ASTM D7647		-		
	Particles >71µm		ASTM D7647		0	00/00/00	
	Oil Cleanliness		ISO 4406 (c) *Visual		16/13/9	23/23/20	
	Silt Debris	scalar		NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE NONE	NONE NONE		
		scalar		NORML	NORML		
	Appearance Odor	scalar scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.1	NEG		
		scalar	VISUAI	>0.1			
LUID CONDITION	Sodium	ppm	ASTM D5185m		1	1	
	Boron	ppm	ASTM D5185m		0	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		0	2	
	Calcium	ppm	ASTM D5185m		22	21	
	Phosphorus	ppm	ASTM D5185m	827	395	401	
	Zinc	ppm	ASTM D5185m		120	88	
	Sulfur	ppm	ASTM D5185m		984		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.21	0.17	





Certificate L2367

Laboratory Sample No. Lab Number

: PE0003093 : 06220354

Unique Number: 11098551

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed

: 26 Jun 2024 : 27 Jun 2024 - Doug Bogart Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

: 25 Jun 2024

Gary Merlino Construction - Off Road Shop 9125 10TH AVE SOUTH SEATTLE, WA US 98108 Contact: Jesse Patterson

oilsamples@gmccinc.com T: 1(866)292-1303

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

F: